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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4039	34407	A	4080	368	1449	LKSTNLITFLRLFVPQMPLAYM KFTPSGLVAACAPWLRQRRVV QLGQIAFSAP/YLSQMVRQEMY NRYGESAYEDGYRIYTTITRKV QQAQQAVRNNVLDYDMRHG YRGPANVLWKVGESAWDNNK ITDTLKALPTYGPLLPAAVTSA NPQQATAMLADGSTVALSMEG VRWARPYRSDTQQGPTPRKVT DVLQTGGQIWRVQVGDAWWL AQVPEVNSALVSINPQNGAVM ALALLNNARPWYLGAQPRDSTI IFCQFGAHPLLDPKTQPVGCRN AARKSCAEIRLVPDARANSGL VRRYRKYRRQYHKSRSRQPL RQQQPVRLDWRNVNDNQYALT TRFLYQSLQRHAQLNVPLFHV
4040	34408	A	4081	1420	1842	
4041	34409	A	4082	407	1347	GRIRVHIHKDGRADGGSQPGVT AIQQQLPFAFAFPN*SY*TESAW AQSIK/GPWWLRDQVDGPAGR LAALPQR/SLINAVSTRMEGISG AFNTANPACST*FLCSLLILPSLF STALPNFRLSAMVSDCTISNMV WST/SAVTDWSCPTLD*ERKHR GTARLTGKGVMGMDRDKQVST LFLGFCYAHQWNEVDVFIARH VHLHIALFLDQRAQTASYLQYH IFFARFVFPHRTGVFATVARLK HNDNRTIAPCFTRLWTTLRWR HLLFEVAFVVILQQRQQRVLHI LCIGRIEVHHQTLFKPGDRRKG KQLRFYVLL
4042	34410	A	4083	1	649	MRHGYPARANVLVKVGESAW DNNKDYRYAKALPTYGPLLPA AVTS/ANPQQATAMLADGSTV A/LSMEGVRWARPYRSDT/QQG PTPRKVTDLQTGG/QIWRVQV GDAWWLAQV/PEVNSALVSINP QNGAV/MALVGGGDFNQSKFN RATQALRQAGAHLPASQSGH HQQTAR*KSNFCARM*TPDQLS W**KNCPFRLSPT*QRQWSLRR YRPVSQRTSF

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4043	34411	A	4084	2	551	WRAAGPEPCPTGRQLRP/AGDL ACSAAGPGAEPFTAPLALAGR SKCGAAEPAPTQNSRWPMSPH LSLHASPQAEGAGSGL/VPAPR AAAG*RAPQMRP/VVGAEAE APGP*EPCRHPAPHASQHRYGC HPS/AAEPCRHPAPHASQHRYG CHPSGLNPAGTQHPMPASTGTA AIHRG*TLAPSPSP
4044	34412	B	4085	1	1029	
4045	34413	A	4086	1	2157	
4046	34414	A	4087	1258	1838	TQVVFITSAWGLGEMVVQGAV NPDEFYVHKPTLAANRPAIVRR TMGSKKIRMVYAPTQEHGKQV KIEDVPQEQRDIFSLTNE\EVQE LAQQAVQIEKH\YGSPMD/IEW/ AKDG/HTGNHGVQALNRCP ARQHRMRIPGRILPRPIGRMAG PKTRIEHTSVTVISNRRRIKTEN RGHKG YEDRKLHEDLQLRHQS
4047	34415	A	4088	2806	3540	
4048	34416	B	4089	1	1251	
4049	34417	A	4090	341	946	GLSSVGQSVNDHLPWT*GLSSV GQSVNDHLPWT*GLSSVGQSV NDHLPWT*GLSSVGQSVNDHLP WA*VLSSVRQSIDDHLPWT*VL SSVRQSIDDHLPWT*GLSSVGQ SVDDHLPWT*GLSSVGQSVDDH LPWT*VLSSVRQSIDDHLPWT* GLSSVGQSVDDHLP*M*GLSSV RQ*VT*AKVNPKISAVTRNRGS VESPHEGRSLKVQVFIPQVED MSWGPPWLWVEGESWT
4050	34418	A	4091	426	706	VLGGGSEEKAPLWWSGPMVLP GAHSMKT*LPHTHVEFGFACLA SAGAQDVGMGEPRTTENSVT GSPSHFPPRASQHRGICRPHAG RATADF
4051	34419	A	4092	596	905	GLSSVGQSVDDHLPWT*VLSSV RQSIDDHLPWT*GLSSVGQSVDD HLPWT*GLSSVGQSVDDHLP WT*GLSSVGQSVDDHLPWS*G LSSVGQSVDDHLPWT*GLSSVG QSIDDHLPWA*VLSSVRQSIDD HLPWT*VLSSVRQSIDD/HSSMD VRSV*CRTISR*PSSMDVRAV*C RTINR*PSSMDVSAV*CKTINR* PSSMDVRSV*CRTISR*PSIP*T* GLMSLIPSQLCGLSAVTPFSAV TRNRGSVENHPILKAAASRSKSS FPRLKT



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4052	34420	A	4093	3	1194	SLGPRSHSCCRSDYRSGTITVPL VLLPVCVGPALLVFALLSPLCV VCSALCGGLLPVLRASLFLWCV AFLAGLVFVFGFAFFGSLVRGR FLVVVPFFLLFALCRLFLVCW LRSFGACPVSVCVAGFACFAGL FLVLVSLSSGFGFRLSFSCVVG SLCLPGFAFRAFCLFLLPCVGA LLAFPGFCGPSSPSLSYGGLFAP WSCALLGFFGCLGWSAPGFLSS FGLSVRVLSLPCASGLRSLSGC ALVPGLFLPWVFSRSLRPLVSF GCLLCFVSHNMDWIKESVAG KVIQGNP*WLPVILFFGSVPLTS KAATAKPLMRMGRALTVSQ T/AVASFAAVYGLFILPT*PTLV GAVQMDDTGTTTRIGKLVSNHP FFIRVLLGVALTVCFGFVLGSF
4053	34421	C	4094	70	1950	
4054	34422	B	4095	262	4347	
4055	34423	A	4096	2	458	
4056	34424	A	4097	2	445	QPTERGLCASLKPSRAAIKSQSS KVISFDSMSHIQGTVVQGVGSQ GLEQQYRSGVAVFRLHSFSHRL LSACEFSRCRVQAVSRSIILGSG RWQPPSHSSTREWPSGHTVWG LQPHISPLHCPKDSL*GLCLCN KLPPENLGFSYVL

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4057	34425	A	4098	1	2589	MVWFLKNVNHGHTHTNAKKYN DVENKERTGWKVGSTEYLLCA RPLRKGNVGLSGDVFLTVFVM KTGHSSLLPSTTTSDSTAQEGY ESRGGMLDWKHLDSPDSTD LGAVSSHNHQDKKAMLDGEE RPFNEPGVFHLLADHQLTQKV ASIPGSAVCAYDMLDIASVFTG RFKEQKSPDSTWTPVDERVPK PRPGCCAGSSSLERYATSNEFPD DTLNFIKTHPLMDEAVPSIFNRP WFLRTMVRYRLTKIAVDTAAG PYQNHTVVFLGSEKGIILKFLAR IGNSGFLNDSLFLLEEMSVYNSE KKWSTAKPVRVTIILNPGQASF CITLRETV/C*RRKHIWCPYRC TLQ*HFCPCH\CLSGKETLCRVT GGMKVKAADRDESLPYAAMLA AQDMAQRCKELGITALHIKHR ATGGNRTKTPGPGA\SRPSSPCP LGCLK/WQTLFPRRRLRWPQGG RRKRSQLEAQRVIRESYLKGDH QLVPVTLIAIVILAFVMGAVF SGITVYCVCDHRRKDVAVVQR KEKELTHSRRGSMSSVTKLSGL FGDTQSKDPKPEAILTPLMHNG KLATPGNTAKMLIKADQHHL LTALPTPESTPTLQQRKPSRGS REWERNQNLINACTKDMPPMG SPVIPTDLPLRASPSHIPSVVLP ITQQGYQHEYVDQPKMSEVAQ MALEDQAATLEYKTIKEHLSSK
4058	34426	B	4099	1	1299	
4059	34427	A	4100	95	502	FPEIPQSCREGAPGPAKPGGPRA REPCPNRTAASWGVHCEGGS TVRTGGPL*GRGVHREDGASSP QHPPRRGRGLGHLGPRPL*GQG DAAAAPGHRGKS/GGKGFLPAL RVQRGERGRVSRAVCMWTSL CASVPS
4060	34428	A	4101	2	653	DSFGSMSVLKPNPRTLFGGKPY VCRECGRGFTWKSNLITHQRT HSGEKPYVCKDCGRGFTWKS NLFTHQRTHSGKLKLYVCKE CGQSFSLKSNLITHQRAHTG EKPYVCR ECGRGRQHSVLVRHQRTHSG EKPYICRECEQGFSQKSHLIR HLRTHTEKPYVCTECGRHFS WKSNLKTHQRTHSGVKPYVCL ECGQCFSLKSNLNKHQRSHTE GK

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4061	34429	A	4102	8	389	LPASASQSVGTTGVISFENTCNI CHFFFLLLLLFFSSSSSFFFLPFSES FRVSLF*IQPLKTTASTVQGRQH SGGYRASPERRADQRAHTGEK P/YVCRECGRGRQHSHLQLSV YPHSFWTQDKRSNH
4062	34430	A	4103	1	740	EGKRGRPFRIIPRAHPFPHELQS RLCILKPLHHPTPSSCPSS*TPVA PLPSHPCAPH/SARSCPVSDEAA LAP*SMALWARAGLLEAPTLL PAAPDASSPA/MPPSRKLPPPLP L/CPEPLGPSAAPSPPAPPGPNA AARPPL/PPPSAAPGPRRPGAAR PVGPSRGP/PRNSRSLRAPDVII TAPMRCLPSVRPPLPVLSAL/PD PLPRPPSFVPSLPSP/PSSGPSCP TSAPPGSPRPGFVRLPCLLFWGS
4063	34431	B	4104	48	272	
4064	34432	A	4105	2	622	CPLSPLLFNIVLELLARAIKKEK */LKGIQIGEEVKSLSFGDDLIV YLENPKYSSKKLLELVNEFNKV SGYKIYVHKSVALLYTNSDQAE NQIKNSTPFTTATSSSSSSSSSP QGIFLTKRLKNF*RGKFKTLVK KNQGDPKKGKNPPGPKMGKN NFGKTPFWAKKI*KFHS\PKKT PPFFQKLKKTGVKFFWAPKGP KGFLSKK
4065	34433	A	4106	39	1043	QKQPVWQRCREIGTLGYCGWK WTLDIHGRGHRILSGGVEIPGP WTEGFIQGRDVGELQEPGLSGR ESIH*\GKSYEYECSEDGEVFRV RASLTNHQVIHTAEKPYKCTEC GKVFSRNSHLVEHWRIHTGQK PYKCSECDKVFNRNSNLARHQ RIHTGEKPHKCNECGKAFRECS GLTTHLVIHTGEKPYKCNECGK NFRHKFSLTNHQRSHTAEKPYK CNECGKVFSLLSYLARHQIIHST EKPYKCNECGRAFHKRPGI.MA HLLIHTGEKPYKCNECDKVFG KFNLTNHQRIHTGERPYKCNA CGKVFNQNPHLRHRKIIHAGE NSLRTLQME

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4066	34434	A	4107	3	941	QQHQQQQHFGVQVAIQQQQQ QGPVQTNQALGPKPQGLMPP SSHQDLLVQQVSPRPQGPQG MVGPAQVGVVLQHLHGALGP QGLH*QVFMP\QSRVFSSPQLA QQGQGLMGHRLVTAQQQQQQ QQHQQQGSMAGLSHLQQSLMS HSGQPKLSAQPMCSLLQLLQQ QQLS*QQHLQQQQQQQLQQQ QQL*QPQLHQQQQQQQLQQQ PQQL\QQQHQQQLQQPQINSQ/HL FPSRRPPNHMGLLTHSPNLTA LRLTSTHKAALGPGQLAALGHP KDGLLWKTGLTWRARGLICGTG GIISYFTQHSWEVKVFTTL
4067	34435	A	4108	1	2255	MEKNKVVKREAEANSINLSVY EPFKVRKAEDKLKENSNDVLE NRVLDGKLSSEKNDTCLPGTAP SKTKSSSKLSSCSAIMALSAKK AASDSCKEPVANSRESSPLPKE VNDSQARAPLQSTVMTNAVSP AELTPKQVTIKPVATAFLPVSA VNEMKTAGSRVINLKLANNNTT VKATVISAASVQSASSAIIKAAN AIQQQTVVVPAPSRANAKLVPK TVHLANINLLPQGAQATSELRQ VLTKAQQQIKQAIINAAASQPP KKVSRVQVSSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEVTCHNGTK NLIFYNKCSLLSHARGHKEKGV AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSlyTCPEGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHEVFYKCPICPMACKSAP STHSHTYTQHPGIKIGEPEIIYKC SMCDTVFTLQTLRYHFDQHIE NQKLSVFKCPDCYLLYAQKQL MMDHIKSMHGTLKSIEGPPNLG INLPLSIKPATQNSANQNKEDT KSMNGKEKLEKSPSPVKKSV ETKKVASPGWTCWECDFLIQ RDVYISHVRKEQGKQMKKHPC RHLCQHNRKHKGIRKVYACSH CPDSRRFTFKRLMLEKHVQLM
4068	34436	B	4109	1	411	
4069	34437	C	4110	54	146	
4070	34438	A	4111	1	1937	

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4071	34439	A	4112	1	1830	MCIEVTCNHCTKNLIVYNKCNL LSQARGHKEKGVVMQCSYSIL KPVSAAGHII VSPSSNSSSSSTLQ SPVGTGIHTVTIKIQSGITGTVISA PSSTPSTTAMPLDEDP SKLCRH NLKCLKCNEIFQDKRSLATHFQ QAADMSGQKTCTICQMLLPNQ/ CQRIHQHKSPYTCPECRAICRK KRT\QIHEWERETGKEISISFEKK SMETKKVASPGWTCWECDFLF MQRDVYISHLRKEHGKQMKK HPCRQCDKPFSSSHRLCWHNRI KHKGIRKVVYACSHCPDSTGTFT KGLMLEKHVH*CMASRTLTK K*QTPPMRRKQK*K*TSRSAVP SG\VERTGSGVQASQSRNNSTT EKAENQCF*GSQAPLCCTQVKG TSASAQAKWGWRR*PTGEQTQ PRGRISQWVMSDRKCKVCAKT FETKAALNTHMQTHGHAEGCL KQPCRSLLSQPRIKTEARNLIRN ADFLNSILRN GEGYSKEKKNGT GFLGRSARLALGAQGGKSWRF LFWVLLPNVLVLRVGMHDVN HRLINAAGCVSQA VTLSTEPH GISSAISRVPRHCHPSGENSMAT SLNVNRSISRLAAGSGVLAMD PIPAGHRAIETGLLGTEDETEQ
4072	34440	C	4113	217	510	
4073	34441	A	4114	210	281	
4074	34442	A	4115	1	675	
4075	34443	C	4116	126	434	
4076	34444	A	4117	804	2061	WERREAGGEDEGINIHEP*VEE EMKKHESNNVGLLENLTNGVT AGNGDNGLIPQRKSRTPENQQF PDNESEEYHSLGDKSKTSFQNS NNNNNKQQEQQQQNPTFSNTR KLTKLYKAPIPPSIILSGCPNIND SNWQEI EHGMMQTAGLPTRPLSH GLQQKGAAFRCLGCKCSEPFTG SLILQKAKTNTQKWQATYPKS QNEQLVPSVGKSYRCSTPAQP MKTAVGHKPKCATGAELPKAL GAQPLHPCALDVGGQGFKKGNF GAVGLNGLLGLEFHGVSGVLL VGPGDGGGLISEGVVREDLMCG VWSAGTWSVGTAERCLEKPGA LHVIEGPLDSWDGPVMPNGPV KSRQSSCLDGPGRCCSEILTQGS HGNKKPARASSKSSQSINDRPL AVLTNQYQCEQLASERQPSSNS

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4077	34445	A	4118	1	357	GKLM LPGSTRKPQVPVDRKMG HEGVFVWQAGLRARPGPSLPFS HGLTLHLHWPLALPV/GATSSP CEAGDLGV\PLAAGTWCPWEA *RQEEAGWQAPGRAGPARVG WGGTGLTSAEVIITI
4078	34446	A	4119	1	771	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQIG/ GPPP/GYQKCR*DTASMLTMAP CHGPVCPHPGWRPRSGSRVIL PAPPGHHPW\GPRARNGLGTF QGCSTGWQVQETCFPGGWI.G DRHLVGPAATGARCLPAARGP/ DGALHPAVPTGKLKGQ\GPGA RHQRTYD*LPRPCGAAGI.GSPP A*HPISEETENQWGLHGPPQPA WARPDHGCQ/APTLSPSLKRKP GRVTAGGPMPCFSTSSVPTT
4079	34447	A	4120	1	402	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQIGD LHQLPKMQIRYSIHADDGVS AAHKRGLRKRTLKTISLPRQES AFPFHGQGGDPGVVPGSSFLHP LGTTPGQGPRARNGL\PSRAA PPAGRGVAGGSPSGG\PAATGA RCLPAARGPVGPYTQQSQRAS* KGS LGPGARHQRTYD*LPRPCG AAGLGSPPA*HPISEETENQWG LHGPPQPAWARPDHGRQPLRC HPP*RGSGGPGQKAAVSQQIPR AGQEGTH*DPTEWGPPDGDQG GPRESRGLQGGRGQCLCDWS PNTSEI*YPHA*NGD*KAG\PPM DTKSQ LQVSTPKSPASHGEDVA RLEEPEASGD/RSVP\GLPGASL.I PIWRPPFSRISVRTFLPSPWNLL RDCGFLGTSLASSSGRVTA
4080	34448	C	4121	111	218	
4081	34449	A	4122	2	453	WWPVLSVPPECRLPGRLPSG*V RGPAPWWPEPASQDKSQLSSR GFP GKVSLGKGMAFSPLQTAP* KWLGLSPPLSSTENTASRGHTS PSSRNGFDSQPRDSRTGRECA TQLPAQHSHA EVLHFGGAMSG QLSLVG PQDSKRTARLTDSQ

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4082	34450	A	4123	1146	1775	KGWLEGAPEA*ERYPGVPPCVV CSLSDAPWVGHPAPSLGV*EP NPP*SRGESQGPTSSICRQSSGD LG*KLESPIHTVIPRHTSQARQG HTAPFPFQVPS*LLV*LKAVSL APAEAP*PASGLHAPWPVAPRV TCAI/PAKGTTVPAGPAELRPVS PPPILLP/PDSRSSAFPSRKGPASP YETCSPPTS*/EVPS*TYKSMGP GIRLPALPASPRVPSEGPGLSEH PEGPPALPPAIPFS\SPSWFKQCS FSIRPGWLLHGAPQKGKWPQA SWVGKTG*PEKRGSPRGPEHSA LNLRLVALPGVAV\*EGPACVGW GGPPQPPGAICEATAPPSI/VPPL SLPAPFPGTLP/PPTPAASP/PPAL PPLLRRGRPRPCAALALPALSSL FS/PPVFSLLSLQLPADRVVRQVH PVLRAPGPPFRPPKQIPSSSGDL PFPSLPGR/PVL*LEKWLPPAPK ASPPSSVNLILLVVVKLNTFRCG PLVKNLVPPSVVCPGPCSYKYL *ILYIHTLHMGQPPSPSSAGNQ SLCYPCGGLVAQPTKRTLVPPTI QLQSVPPP/PPPCHARPVDSQP PPSLPPPTKHGGAVQAAVWPDS FYPVLLSLG
4083	34451	A	4124	146	1701	TFLGYLETAHGPSAQQCPTGLF AFRSLGRGLLLTSLPKQPARSPP REDVPRSTTQEMTRPRHPPRKP AQPGLGARRRGAPV/RGLSKSR ELNSGNTSDSGNSFTPPHPRTR GPCWRISPPPAGAESQGDAMLL ARMCMPSLGLMSRTFPHSST GKARGFQSPCLECAEVKKSSLV PSTARSSPMKGCSRSSSYASTRS SSHSSQSPNPRASPRVRTIITCIL *TRKRPRETKSSAKVTHYYSSK SGKRSPPSRSSRSRSPSYSRYS PSSPNSPADIPQNSHPQPSASTD RPHIQSPQFLPTHQGLRNIHVLT PAAPALL*CPPANADTPAQAP PPLRY*QPSQTLTAAPSSSLRSP LRQRADPIP*PSGGAGSQIQWK DSQQRERERARRRRRSYSPMR KRRRDSPSHLEARRITSARKRPI PYYRPSPPSSGSLSTSSWYSSSS SRSASRSYRSRSRSRSRRRSRT RTSSSSSSRSPSPGSRSRSRSR SRSRSRSQRSYSSADSYSTRR

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4084	34452	A	4125	1	1068	MLLLELNAPHEHVLETINFQTLT AFCNTFHILRPTKAPGFVYAWL ELISHRIFIARMLAHTPQQKGW PMYAQLLIDLFKYLAFLRNVE LTKPMQILYKGTLRVLLVLLHD FPEFLCDYHYGFCDVIPPNCIQL RNLILSAFPRNMRLPDPFTPNLK VDMLSEINIAPRILTNFTGVMPP QFKKDLDSYKTRSPVTFLSDL RSNLQVSNEPGNRYNLQLINA LVLYVGTQAIAHIHNKGSTPSM STITHSAHMDIFQNLAVDLDTE GRYLFNLAIANQLRYPNSHTH YFSCTML\YLFGRTRANSRPFQ\ EQITRVLLERLIVNRPHPWGLLI TFIELIKNPAFKFWNHEFVHCAP
4085	34453	A	4126	1	984	MQANLEMAGNGVTSMGMEPL AIPHIYCCSEGT CNFSNTENHCL RAALSMLLNGTPFAFVIDLAAL ASRREYLKLDKWLTDKIREHGP SVHGLFPSRVLSPALGPGAFPG RHNCGSCVAPQSGLPGVHPVEL PWSISKLFRLRSPANFSDVLGSR SKVLLLMCTLK YCGMQLGADA TRVDMLTFLPTLG FIRNNDYTD DTKASELTEL SHNLHAYDSVTG VPGDETECKTVSTWAYTAESL QGYMAAKLLGRNLTVP SRYLF LNAIANQLRYPNSHTHYFSCTM LYLFAEANTEA IQEQIT/RLVRE RI*S*ANAYWHSEKFYQFTCEL
4086	34454	C	4127	1	399	
4087	34455	A	4128	1	868	MANVCNPSTLGGRGGRITRRPE DPGSPVYSVPPASYHPKPWLGA QPATVVTPGVNVTLCRAPQP AWRFGLFKPGEIAPLLFRDVSS ELAEFFLEEVTPAQGGIYRCCY RRPDWGPVWSQPSDVLELLV TEELPRPSLVALPGPVVPGGAN VSLRCAGRLRNMSFVLYREGV AAPLQYRHSAPWADFTLLGA RAPGTYSYHYHTPSAPYVLSQR SEVLVISWETLAPPTTPGGT*S AWGWPGWSSSPWARWSLLTG AVRTALLFPQVPHRATTPWVT SYDWVWLP
4088	34456	A	4129	1	270	
4089	34457	B	4130	39	919	



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4090	34458	A	4131	3	466	GRALCPPRLLAAGRVLGPGRRS PG\PGPGVP/GG*R*GGAEP APRGRVLPPSAGSGQFSAATPA QNGLPALRGPGSRPGIRSKAVR PVPLGRVGVYFRDALRASGQS GRKLCCIGNTLSPTSFSVGKEVP RKHETNQKHEKGILCMEAVKP
4091	34459	A	4132	1	1647	MWRWLYAGARMTVRDKQPLE QMLAGCTHASLVPTQLWRLLV NRSSVSLKAVLLGGAAIPVELT EQARDMGIRCF CGYGLTEFAST VCAKEADGLADVGSPLPGREV KIVNNEVWLRAASMAEGYWR NGQLVSLVNDEGWYATDRRE MHNGKLTIVGRLDNLFFSGGEG IQPEEVERVIAAHPAVLQVFIVP VADKEFCHRPVAVMEYDHSV DLSEWVKDKLARFQHLVRWLT LPAEPKNGGIKFHVSAKRVGAL TTRMEAAQQHADDKIRQMINS EQRLSEQFENLANRIFEHSNRR VDEQNRQSLNSLLSPLREQLDG FRRQFRTASLMKVAGWDYLM NSLYNANSSALVNRVRYKWIA AFEGGFTGIVATLDTGRPGPVM AFRVDMDALDLSEEQDVSHRP YRDGFASCNAGMMHACGHG HTAIGLGLAHTLKQFESGLHGV IKLIFQPAEE\VRVARGRWSMQ VS*MMLIILLPCTLALAYLRALL CAAVIILWQPPNLTRTSPVPPLT QAQNQKTVTMPCWRTSHSCT ACNRPAQRSSFQS
4092	34460	A	4133	864	1128	TGRSTIRRQRREPRRKAATLRF DRNGCRARCTPP\GRKEQRYQQ TADGDKGAEFYRRPEGVEIVA VMEQRDEVIQADKLAGETKRI DAL
4093	34461	A	4134	618	1102	HSNAAPTARSSFVQNTSPSSCGY SRRAWRISSIPEETDRTSYRNIQ CGNHPPVPARLPAGQTGDGDIP PRPRWQSPQTAPRKPPDLP/LIR KNKIPMFRSATTQPLGTGTIAK ASSEVKAIIGARVKMTRSENF GIQSSLKNILIMSATSWSEPPQP TRLGP

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4094	34462	A	4135	2400	3201	VGGGRNRSPGVACWVEDGNG DAVRDQWALDADWQASQAM RRKQQPE\YWQHDAATADADR QMNMPVLH\RALVAGRAQEM NGAQQKTLLKGWDEASARRG TKTED\FCEEDTRDDAMIAWM PR*PGVLPRAAWANVLNHGV GWKKAQLK\STWMPQVQQ*W RGD\KAANSNAAVAHTVLLN SGGDATQ\TAAFPISPLSV/EEV CVTMVIA*FWMWDSGGGVVL CSSSGRSLTWSATKVRG/SGH KGRWCSRQGVTCQVRHGGHV APH
4095	34463	A	4136	118	1008	
4096	34464	A	4137	3	1140	KHTYMLSILKPVRTSALPPPAP AQTLCQLSRVSSRL*DHPSR WGLR/PSTGMSQARACSPGSLG WMQRSSFTPGAGRVRHIPN\SA GSTRRPACGSRSAAPVRPCRR TR*G/RSSVVERFMTALSLACR ALPGP*AAPGPSITRRFTISAELK DTRL/PREHVVPLVCTHAIAVPD RGAAVRPTRRRDAAAPPSPLVG DVTLCQPSQ*RGSNAPDQVRLP CVG*RPRSSLQRSGLSVFSADGS TSGPEPASGRKDAGWPARVLR GTLSRGAPEAGADWGPYSPGSP GAAASGAPWLGPQALQGAG GQLVSENGERGTTKPRVSVS VAYGEIALPADTSWSSRAGAA VLLGLSRSTGGEGPGNMGHGG QSQMLTLEVL
4097	34465	A	4138	10	585	PLEMELNLISIEVWGERLGISTG TEKMPTLKHRTWPVECSKASSL EGDLRSL/S*LEVISAFSADPASA DDSPGCWKKKDDCSMVHLHR QEWQQQQCCQ*K*RKQPPGER RNKCGSHPVCGTVLWQP*QTH\ QISSCPTVGCPPSHSSFSILDGAN AGQEKQSTTEPEPALFLLPPSRG AFGPFGLLSDLRRQL
4098	34466	A	4139	1	474	
4099	34467	A	4140	458	612	ASCMAVSVDISVLTTCMWRCTIEQ SSSFLCLLTPLWE*SWCHVTRIC PFISLG

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4100	34468	A	4141	1	829	MGRPDLILSSILGLRWLLLPQSS RAGRRAIREASDAEQVTFSGG TVPARTSSGREWRSLLGPD MET TSLFCIDTKTTF LFVYRYGDHIP LVPEQSGLEPLLIWADPGLFHV RLFHLLTIDDNFCGLDMNAPLG VSDMVRGIPVFTEDRDRMTSVI AYVYKNHSLAFVGTSGKLKK /VRSSAAP*VWDQDTPRSLGQQ GAQRQP/ILRQCVYTFQNL*RC PHSTARRELRTGGFIPTRSHQD GLRSAARCTQGTQ*ASWSCV HVCASVRAMCSYC
4101	34469	A	4142	5	237	NFGAMTRIR\DL PWEINPLSSCS SLCEKDPPTTSSPQTN*PKEHHT NFQSETGDEFYPWTQNFSTGHG LGKTVFPWCL
4102	34470	A	4143	1125	1190	
4103	34471	A	4144	306	573	RNFGAMTRIR\DL PWEINPLSSC SLLREKDPPTTSGPQTNQPKKH LTNFKSGKRPLLTLFSNL SHCPS TTFFFPFFNL SLLISIPFIW
4104	34472	A	4145	1	329	ASHSWQTLQHSGRYSRSSG/SA GSPRDCAARAPTISPGCAMA WL NLDSISPSSQSKASPLSQLTCPET SYTGCP*SAPHSPPPWPQERC ACKGHCLHHRDGCCGYGYN
4105	34473	A	4146	2	336	SILTRKCKYGM EIPT/NIPGLGA AGPTGMFFGSAPSPMGGISPAM TPWNQGATPAYGA WSPSVGSG MTPGAAGFSPPKA/PTYSPTSPG YSPTSPTYSLTSPAISPDDSD EE
4106	34474	B	4147	1	1260	
4107	34475	A	4148	150	335	SFQQSAPW*ASGQSCASDPAPP ATARGRFGPHQSQAFHSRHSPIP DPLPPPCSGGWGHSRW
4108	34476	B	4149	1	3267	

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4109	34477	A	4150	1528	2973	GKQIFSLIIPGHINCIRTHSTHPD DEDSGPYKHISPGDTKTVINNW LLIEGHTIGIGDSIADSKTYQDIQ NTIKKAKQDVIEVIEKAHNNEL EPTPGNTLRQTFENQVIAVVGQ QNVEGKRIP*LPPPL*WGAGRR EGVG*CGRFSEHSRSSAAGYRG GRPCCPSWEDDP/GAPDPAS AQIPAPTRSGCVRCSARPSGPP AECAAGPSHWYNQSGTSSQKP CWKA*AYPGSGTQSRSGSQAR SHP**SEAESGA*SQMESACPRR SAVQRQQ*PDSQTSAAECSLG WAPAHCCVPSR*PLLRPAWPS* *CSECPGKS*NQQWSPQCQ*YD PNPQSTVVAEDQEWNVVYYE MPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFG DDLNCIFNDDNAEKLVLIRIM NSDENKMQEVMGVLEVSVSHV
4110	34478	A	4151	459	940	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGACATPPPCRPPARRTCTG RCPPSCCLCGSPTTWRRPPTG GALESPKRR
4111	34479	A	4152	264	1386	SSRCQPVCESGHPGYGQSPA/YT TAGRTESGGTGST/GDNHPLWP CI/GGAPCPAQNTPHLRV*RS ALALDSAGSSSPESPH*RASIPH TTLGQKRRSWAGTAHS/PMAPC AAASISTST*LSHHHSPAAQSV PSSHTTPSFCPIQKFHCFR/SPQR NTS*VVLCPPG*LRVG*WPSSG HDRSWYHTREPSVGN*HRSHQ RR*RGTAAPAGPSARLQCPARG SRSSHAPASSRRPFPGSTPAG LGFPSARFPVGKPVVPAALMNR PTRGERRFAYWAPGWFFSPVR RATADCPSP/SWP*ESCKRSTL VCPSRRKSCLMVVPKSAKSPVL AK/YGPVGHHDHGTEDVVLGE VQGKRPVAPTMGTPKHKAVHP RAPH
4112	34480	B	4153	52	363	

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4113	34481	A	4154	321	802	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGACATPPPCRPPARRTCTG RCPPSCCLCGSPTTWRRPPPTG GALESPKRR
4114	34482	A	4155	15	263	CGRFSEHSRSSAAGYRGGRPCC \PSWEDDP/GAPPDPPASAQIPAP TRSGCVRCSARPSGPPAECAA GPSHWYNQSGTWKCKG
4115	34483	A	4156	3	518	SPSVGSGMTPGAAGFSPSAASD ASGFSPGYSPAWSKPGVPGVP QVPSKPLKSLHPGGVVRHLSGQ VCFLHSSG*VCPLLISFVGCFT GGAMSPSYSPTSPA\YEPRSPGG YTPQSPSYSPTSPSYSPTSPSYSP TSPNYSPTSPSYSPTSPSYSPTSG SYSPTSPSYSPT
4116	34484	B	4157	620	6763	
4117	34485	C	4158	430	870	
4118	34486	A	4159	1	3039	MDSETRRTAKVRLMTVLRDQ DRVSGVQAHPEQFQQAICPLCG VSLTRSGTTFGSPSEIYSPLGESR ASSGLPRRDGRLIGEEPPEKKFS RSPKGD/LSSGGQRIDYRVCVPT KFNL*VLSF*PRGQGAGGQSPG FSVRLLVLVWSSGTFV*NGK* QKLL*TLCECVHD*GVQGPASG SPVCSSTAKATEFEKDPSGPFSS SSLPLTPYISFSRVTASSASPLGLG SALTPQTLKRKGRI*AICL*VVE TPKVFR
4119	34487	A	4160	1	772	MVARAFLWSQVIRRLGRKGGL SQGDRGCNTALAEGRDPDLT RGHPALCLPRRPAPRPAEVRRE GEAEQPEAGQPPGAAPRRARD NGAAAAAAGGRLLQSVRPAVV CPHPGPQASYGLRYIAKVLKNS IHEKFPDATEDELLKIVGNLLY YRYMNPAlVAPDGFDIID\MTA GGQNSDQRKNLRSTAKVLQH AASNKLFEGENEHLSSMNNYLS ETYQEFRFKNVTFDIATEDVGI FDVRSKFLGVEMEKVQLNIQ
4120	34488	A	4161	174	444	YHRHDSWRNTRR*\IKLDGKGE PKGAESEATSKYTAAKLHEK GVLLDIDDLQTNQNAVNDFSV GPQDEVIVEDITNCYLCEIFKRY EWWT

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4121	34489	A	4162	379	520	GTSHRGASQRRCCPPLSKTGPK TPCGKGAPSAP*QGGLDVQGEP GGK\GDSSGECVGGNVAGLHK GGGTRADSQVPGGMRGGRMS Y/GG/HLTAEGPMGRSGPR/GAV PSLYPPGFSRGSCSRQYSGAHM PILTGHWGSESSLDPPRAGQD RFLGTARP*GTSHRGASQRRCC PPLSKTGPKTPCGKGAPSAPFIP AGPTFDHKALM
4122	34490	A	4163	455	798	
4123	34491	A	4164	32	2109	WIGGCPGSQPDATAIMGWTLA PHSSRCHRCCHYRCHCRCLCP AEMTVGRPEGAPGGAEGSRQIF PPESFADTEAGEELSGDGLVLP RASKLDEVLS PQEEIDPTS DSTG SIYHTLLDLAQKGRWLSVWSLS FSLTQRVMKTS LKMRRTWRVS SKTRTGGWCRSSARRL*GVAPQ GAA/DSLNNLPSNIPRPQTQPPS GSRPPSQHRSVSSWASSITVPRP FRMTLREARKKAEWLGSPASF EQERQRAQRQGE EEA ECHRQF RAQPVPAHVYLPLYQEIMERSE ARRQAGIQKRKELLSS LKPF SF LEKEEQLKEAARQRDLAATAE AKISKQKATRRIPKSILEPALGD KLQEAELFRKIRIQMRALDMLQ MASSPIASSSNRANQPRTATRT QQEKLGLFHTNFRFQPRVNPVV PDYEGLYKAFQRRAAKRRETQ EATRNKPFLLR TANLRHPQRPC DAATTGRRQDSPQPPATPLPRS RSLSGLASLSANTLPVHITDATR KRESAVRSALEKKNKADESIQ WLEIHKKKSQAMSKSVTLRAK AMDPHKSLEEVFKAKLKENRN NDRKRAKEYKKELEEMKQRIQ TRPYLFEQVAKDLAKKEAEQW YLDTLKQAG\RRKTL*ETRVKA PGLFKRKRPKSRIFPGSKKLQNS ASEIQSR/RLEGSLEQPASPRKV LEELSHQSPENLVSLA
4124	34492	A	4165	251	637	

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4125	34493	A	4166	1	1344	PGRTTRSMAEDVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEE EEEEDAVLVAEAEVAAGWM LNFLCLSLCRAFREGREDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLD AQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIQAIAVCMENG NFKG AEEVFERIFGDPNSVHMPFKSKL LMISQKDTFHSFF\QHFSYNHM MEIKSYV\NYVLSEKSS TFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYKKKC*LT NSLR*LNPQRVQYPY*GSHKNL FLSKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHRARKRQAWLWE EDKNLRS GVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
4126	34494	A	4167	1	1345	IPGSTISCLKGQYPSEPFNMAED VSSAAPSPRGCADGRDADPTEF QMAETERNDEEQFERQELLE QVQVGAPEEEEEEEEEDAGLV AEAEVAAGWMLDFLCLSLCR AFRDGRSEDFRRTRNSAEAIHG LSSLTACQLRTIYICQFLTRIAA GKTLD AQFENDERITPLESALMI WGSIEKEHDKLHEEIQNLIKIQAI AVCMENG NFKEAEEVFERIFG DPNSHMPFKSKLLMISQKDTF HSFFQHFSYNHMM EIKSYVN YVLSEKSS TFLMKAAAKVVE KRTRTITSQDKPSGNDVEMETE ANLDRKRSHKNLFLSKLQHG TQQDLNKKERRVGTLQSTKK KKESRRATESRIPVSKSQPVTP KHRARKRQAWLWEEDKNLRS GVRKYGEGNWSKILLHYKFNN RTSVMLKARWRTM KKLKLIS SDSEDWIVFVKL
4127	34495	A	4168	3	378	LTSGSRADQGEQEEGAEGGR ASSSSSSSPRG PQHHPHLHGD AEHRPGHPLCSPPD LTVAYQ/M PEVPAEDM/SDPSFCSARQGGQ RGLDSGPGAPWSSSHSPHSRFQ EASHGACAGWRWCRQEEL

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4128	34496	A	4169	1	1044	SGQEVNKEDGQADVQQDHHA DEDGVGDLARQPHLHLRL CRQCGLLPRLLGPRLGQPSSLS LAGLGPGLGFGDDGLGLQLGG GLACRLGASERGGGLQGGGRG RGRGLGPG/GPRARAGPQRVGA RAAWCAQHSCGSPGKAPPPAP A/TGAGGACRASMAMRSVAGR AGLRRPAPSDGVTDRLPSPLGS PFQAP/EAQQA\VLGHPGPGPLG LRGRPGR*RGATLGPRGLT/PRA AAGSRGA\AVGGPLRRRPGRGA PAGSPSPGSPAAAGASDIPDLA GRSPEPAPWPKCEQCWTPGWQ PGRPVPPLQLWPWRGLSISGSM PLGEGLEDGSDPMTSCCLPGT
4129	34497	A	4170	1	732	SLTQAGTVSLGLDAEGQEVFVP FSAVLPMVAPNDLVFDGWDISS LNLAEMRRRAKVLWDWLQEQ LWPHMEALRPRPSVYIPEFIAA NQSARADNLIPGSRAQQLEQIR RDIRDFRSSAGLDKIVLWTAN TERFCEVIPGLNDTAENLLRTIE LGLVSPSTLFAVASILGGLCLS FNGSPQNTLVPGALELAWQHR VFVGGDDFKSGQTKVKS\VLVD FLIGFRLQRP/VSIVSYNHLGNN
4130	34498	A	4171	1	908	MEKAPPQTQHEGLKSKEHLPE QTDEGKTEYRRVPSLRAVVLFR QRSCIENILRACVGLPPQNHML LEHKMERPGPSLKRVGPPVAAT YPMLNKKGPLVWEVSPATLFA VASILEGCAFLNGSPQNTLVPG ALELAWQHRV\FVGGDDFKSGQ TKVKS\VLVD\FLIGSGLKTMSIV SYNHLG\NNDGENLSAPLQFRS KEV\SRSNVVDDMVA\SNP\ML YTPGEEP\DHCRMGRNLPE*GSS
4131	34499	A	4172	85	529	ECGARPGSSTRPPARLS\PRLFCS AIRAALKTRPAPALACTWRTG* RASLPTTRCAGSGLGTCTAEGS EGC\SHPGPLTGTG/RQEACPGT APAGSPSCLHPRGRPRPCPPGTL APRMSCPWPRSPPLTRYLPSGE NLQSKLES\NTSEKF
4132	34500	C	4173	215	324	



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4133	34501	A	4174	2	505	YKCEVCDKVFNQ*FLVCHNR CHTGKKPYSCYECGKTFSTSS FTCYRRLHTGGKPYKCSEHNK TFG*NSALVIHKAHTGENPCKC NECGKVFNQKAHLARHRLHT REKPYKCECEKVFSTRKSHLER/ HKLKRGGVALV/C*ECPTVYQN TSCLRSLSCSYPMSLNG
4134	34502	A	4175	1	6192	
4135	34503	A	4176	2	3389	
4136	34504	A	4177	3	875	GEEAALSCLMHSTDDATRLGA RDTEPLWHVPAQ/ARLSAIGS SGNKHPSR/QDAAGKDSPNRHS K\GSKPSAGSLRLSSREGEDRTA WTGPRGAVEQEVTPDLC*GR GQQGLLVGWT**EQKRGQKGP QYSSHSSSNTLSSN/ASSSHSDD RWFDPDPL/EPEQDPLS/KGCM SLAK/APRPAKPHKPPGSMGLC/ GGGREAAGRSHHADR/REVSP APAVAGQSKGYR/PKLYSSGSS TPTGLAGG/SRDPPRPSTLWH RTWYL/YHTASAAVHRGLCRE LEQADQIPPSWYGRRPMGNS
4137	34505	B	4178	108	318	
4138	34506	A	4179	103	540	RRGCESHKTLRRGTSWGLDAR GGGPGPGQVSAGRDAEVWLS TCDRGHALSGSVEELLFLQN/G ARTER*EGPGEWPRPPPGGLASP ALWRFWAEQVGGSFQELSPS CRTARGSSRTWGSILQNSSWLF QDLGLHLAEGCFLETP
4139	34507	A	4180	33	896	KITRHCTAPGKIRIVPKESQUEST PQDQAGPGGRATSCSARWSPR SWKSHSELFCKMEPQVLEPRA VLQDQAGPGGRATSCSARKGR GPEKPVQGLPN/GSVRAHSGGR AAPQSPRGHGPGRG*TAAPLP HLCPLTPVLLQG*GPD*WPLGW ATMRPLPLRAQPAPPPHWML LTPSAPPPGTGKPGQGRGQTSG SCVPATDPHCRLSAPSPGKLGPP CDFLEPP*QRTTNWGSSEAGSP KSRCPRGHVPSGGSKGGIFLSL HFPGAPQSLEFPGSQPHGLIGAS
4140	34508	B	4181	1	625	

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4141	34509	A	4182	160	1149	FASERMKVEPWRA GPGRRAWS EGAGQAPQKRARAGAEPQLPA TPALPGGKMVARRTKLA\RGTR RTYPEPTV\YAAIPIKFSEKQQA SHYLYVRAHGVRQGTKSTWIPQ KRTLFLVNLNPPYCTEESLSRLLS TCGLVQSVELQEKPDLAESPKE SRSKFFHFKPVPGFQVAYVVFQ KPSGVSAALALKGPLL VSTESH PVKSGIHKWISDYADSVDPPEA LRVEVDTFMEAYDQKIAEEEA KAKEEEGVPDEEGWVKVTRRG RR\LCSPGLRQPACGCWRGRDG SAA\KRAAQLRLAASREQDGA SSA\RK KFEEDKQRIELLRAQR KFRPY
4142	34510	A	4183	2	361	GTMVARRTKLA\RGTRRTGIP'S PPC*A\AIPIMCSEKQQASHYLY GRAHGIQQGTKSTWPHKRTIFA FNGPPYCSEQESLSCLQSTCGL VQSVKLKEKLELGWESRSKFFH PKPVPVTEEQ
4143	34511	A	4184	917	1128	
4144	34512	A	4185	1	660	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKYH KTQPSPEDELYGQ/C/SWRKNA/ CSFTSTTQEAHKN/TSHLYGFN WNHCGEMVPACKRHFIQDT'CL YE*PPNLGPWIRRYAWLPGIQE LAEELNFPVGSAGSNPSSSSIQ WVPGILEPEPFFSTKISQVDQSW RKEWVLNVPLCKEDCEQWWE DCRTSYTCKSNHGKGNWNTSG SNKCQVAAA
4145	34513	A	4186	216	781	MDMAWQMMQLLLLALVTAA GSAQPRASARA\RTDLLNVCMN AKHHKTQPSPEDEAVWPDP/W MCKGSCRKTKSWNI/HRKSKCE VGLA/WEACSVSAGTGRGPGC GRWVGAPQGP/CPRKCSSG*PT W/VQRSQNMEEMAVVNQSWR KERILNVPLCKEDCERWWE DC RTSYTCKSNWHKGNWNTSAPS AVCDPLL

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4146	34514	A	4187	3	625	QCRPWKRKNACCSTNT'SQEAAHK DVSYLRYFNWNHCGKMAPDC KRHFHPGTPALYE/CAPHNLGA WDPAGWIQSWRKERVNLNPLC KEDCEQWWEDCRTSYTCKSN WHKGWNWTSGFNK\CAVGAA CPTF\HFYFPTPTVLCNEIWT HSYKVSNYSRGSGRCIQMWFDAS PGATPIEEV\ARFY\VAAMSGAG PWAAWPFLLSLALMLLWLLS
4147	34515	A	4188	1	268	EQGRH/GSSTPVGPRGGPRIGAE HAPKHQCGDRAGPQVGMDDQ RRRDPPRAPAAPRPWCGQRAA LSSLGGSHLCDDA*VQPSAGLG KVLKF
4148	34516	A	4189	2	1632	WKRCPGLPRAAATFPGSGGAG GARREAGGRAPTPGPASPTAR GHARNSPAPARTAGRTGSAGA WQTPCPAPLFPMASAGLPAACH WNPV*LRALKTG/LEGVLGGSA DTQHNRVTDGSLAPN\AACVYT PKINGNRHPNTCTKMFI VSLDA KGKKWKQPTVHQQRKRETCG LHPRKCLQYTPS*WSTTTGILPS RTPRISCVQFVKKKLGQAGLLG HPGACLLCTLP*\PAGVGTFLLP RGC*GVVH*LEHTTCG
4149	34517	A	4190	2	87	
4150	34518	A	4191	3	291	
4151	34519	A	4192	112	286	AWLLWLTSLPWGSLYALALLA NKPAL*SLLLRYTLLPPHHQC EKVPRWNEPQPTLFP
4152	34520	A	4193	1	933	
4153	34521	B	4194	1	999	
4154	34522	A	4195	135	1160	VWALVRSTLELFHTDDEEEGE YDEVTEEVTEQVYLPAAKAKVA QEEVHPYPSAPPHYFYFEEKW PDPPDLSFLEDTGKRVVAPVTE QHLERLLSVLFRQEFSLDERD DAVEQLRGVCIRAWKITSGGE QYPSFSAVKQGPKELYADFIW NLLRQESLKKVISDSAAQDIVL QLLAFGNVNLDCQAALRPIRGK AHLVDYIKACDGIGAKQDSERF AFTIPVVNNLQPAKHFFHYFTDG SSNGKASYSGSKGQNNQPIWIL SRHLKPYHEPDAKEEIPGG/CPR TPWLQPCRD*C*GGP*/PVTSNT R*TQPPTWGQIKLSQMVEENL RKAGQLVTMTVYWN

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4155	34523	A	4196	502	578	LV*EDCIAERAELVLRNesyGIID WSP*GMFSLNCTSQSACHGHT MFSW
4156	34524	A	4197	2	408	
4157	34525	A	4198	3	853	LLKVIMSAKIFTKKNENSTERL CGDGEKRGPDFRTERS VWLLR LEEAVAMVQRGSRAPESRVVA QVLTLLDGASGDREVVVVGAT NRPDALDPALRRPGRFDREVVI GTPTLKQRKEILQVITSKMPISS HVDLGLLAEMTVGYVGADLTA LCREAAMHALLHSEKNQDNPV IDEIDFLEAFKNIQPS/LVFEASL GLMGIKPVDWEEIGGLEDVKPE VKTAH/WSLRQKSGHC/RSCAR LPTGLLATLGSGSGSGRATEAV SGPAG*KRASIGGSSQRP RRFP
4158	34526	A	4199	266	370	AERINSITVFSETLKRFLQASGK *FHRDIHNSRN
4159	34527	A	4200	1	1780	MGDVNQSVASDFILVGLFSHSG SRQLLFSLVAVMFVIGLLGNTV LLFLIRVDSRLHTPMYFLLSQLS LFDIGCPMVTIPKMASDFLRGE GATSYGGGAAQIFFLTLMGVA EGVLLVLMsYDRYVAVCQPLQ YPVLMRRQVCLLMGSSWVV GVLNASIQTSITLHFPYCASRIV DHFFCEVPALLKLSCADTCAYE MALSTSGVLILMLPLSLIATSYG HVLQAVLSMRSEEARHKAVTT CSSHITVVGLFYGA AVFMYMV PCAYHSPQQDNVVS L FYSLVTP TLNPLIYSLRNPEERSHRGVKL NECNQCFKVFSTKSNLTQHKRI HTGEKPYDCSQCGKSFSRSYL TIHKRIHNGEKPYECNHCGKAF SDPSSLRLHLRIHTGEKPYECNQ CFHVFR TSCNLKSHKRIHTGEN HHECNQCGKAFSTRSSLTG HNS IHTGEKPYECHDCGKTFRKSSY LTQHVRTHTGEKPYECNECGK SFSSSFSLTVHKRIHTGEKPYEC SDCGKAFNNLSAVKKHLRTHT GEKPYECNHCGKSFTSNSYLSV HKRIHNRWI*/YYCRNFWRKAL IDLSSLR*FERAHTGYISYLLQH
4160	34528	C	4201	18	182	
4161	34529	A	4202	1	389	
4162	34530	C	4203	114	548	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4163	34531	A	4204	122	735	LRAQQQHN*VLT LHKPACTLST TS*K*LHKIRK*LWHLRDRAPFI FTSEMEYFITEGGK/NPQHFDQDF VELCCRAYNIIRKHSQLLLNLE MNSYNGYVGLLHNLQLEREG LATKEELQQNFPLSVSLPFDQS INQISEHRSIFNGQYPYGSCWF RQAVCKLIQKYAGEWGWATA ELRAEIDLNVLFKFTIQVLSWKV QASLQ
4164	34532	A	4205	139	4496	KMAYSWQTDPNPNESHEKQYE HQEFLFVNQPHSSSQVSLGFDQI VDEISGKIPHYESEIDENTFFVPT APKWDSTGHSLNEAHQISLNEF TSKSRELSWHQVSKAPAIGFSPS VLPKPQNTNKECSWGSPIGKHH GADDSRFSILAPSFTSLDKINLE KELENENHNYHIGFESSIPTNS SFSSDFMPKEENKRSQHV NIVE PSLMLLKGS LQPGM WESTWQK NIESIGCSIQLVEVPQSSNTSLAS FCNKVKK
4165	34533	A	4206	1	3150	MEKPRPLEAPSAWPQDDVQCG VTVGMDGA AVRANRTPWPQD LEQTKWIEIKKSAFTWSSQLSL NRGFLTCKDENNNAGLLRVSS YSSREDQLKNIASDSL FMLPGG LCQSPTGTSHCSNQMETQGQGS PGGAVRGDKALGPEKARQGCG MNGSGKYCKFRVLAIQ GKPEC LATLMQPD LGDSPGLREMNVV EHLRASFPVEQWYWRGGQRGE AEGARSSKAENNTSLICNFRLD YAPIEKQWDLHFADYFAEDLK
4166	34534	A	4207	1	1203	

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4167	34535	A	4208	1	1470	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQKGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRQGLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGVL TRSVIEYDAAAGRVIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHA YNAQGL ANRCIPDSLPAVEWLTYGSGYL AGMKLGDTPLVEYTRDRLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSSLTYRHANFAL
4168	34536	A	4209	757	907	RRYCRITVRWQSM/WADNRIA VDAHYPYR*CRS/GRVTEKND LIPKG/VIRTDDETRHYHYDSQ HRLVHYTRTQYAEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRTRIQTIIYQPGSFTPLIR VETATAVMDRILKDHQIVVDIP HGEAWLRDDEERPMILIAGGTG FSYARSILLTALARNPNRDIT WGGREEQHLYDLCELEALSLK HPGLQVVPVVEQPEAGWRGRT GTVLTAVLQDHGTLAEHDIYIA GRFEMAKIARDLFCSEARNARE RLFGDAFAFI
4169	34537	B	4210	1	3258	

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4170	34538	A	4211	281	1571	CQCPGAACPTTSCRVIPHWA\Y DEADRLT/HRTVN\GETAERWQ YDER/GWLTDISHISEGHRVA/V HYRYDEKGRLTGERQT/VHHPQ TEALLWQHETRH/AYNAQGLA NRCIPDSL/PAVEWLTYGSGYL AGMK/LGDT/PAANLDIRIPYAT DPA/GNRLPDPPELHPDSTLSM/W ADNRIARDAHYLYRY/DRHGRL TEKTDLIPEGV/IRTDDETRHY HYDSQ/HRLVHYTRTQYAEPLV E/SRYLYDPLGRRVAKRK/DRTR IQTMYQPGSFTPL/IRVETATGE QAKTQR/RQLADTLQQSDGED GGS\VVF\PVL\QML\DR\LESE SSADRVRSFISLANQSKCVEHA Y*RWQCHLGVCWSSHQIPAV PLTGSVTRWHCHLASSSEAGSV AWLPHLSEGHSNRTSSPELLRS RMCAWHTLSAQSVHLVSLYIL EILALMNSINSL
4171	34539	A	4212	311	788	
4172	34540	A	4213	29	395	RIFHSVI\GVAAHKGGVYKTSVS VHL\AQDVAEIT/LLEGNDPQGT VS*YQGPGRTLIPLEAALRNIAH SLSIPPPKIFAAPT LRHYFALFFC GHSLFAPHIELLEAGTVLQLPQ GPWSSPTSF
4173	34541	A	4214	1	1033	MKMPEAIATKEKIDKWDLIKIK SFFSTPKETINRVNRHHTEWEDI SAIHLSDKGPISYIYKNLTRFTR KKQPHYKVKGNEQTRILESH HLLKGLASTPFDSEGVRTERRD IHKDGILTQWLLTSYSARKLGLK STGHAGGIHNWRIAGQGLSFEQ MLKEMGTGLVVPFTAENARSC IRAYFYDIHETLCRQEEMALSV VDDHVREKLIWLRQHQQEDMTI LLSEVSAACLHCEKTLQQDDCR VVLAKQEITRLLET LQKQQQQF TEVADHIQLDASIPVTFTKDNR VHIG\PKM\EIRVVTLGIGMGAG KNLLSLF*V*NRVEFHGSPFPTI WFLTWETVGLK
4174	34542	B	4215	414	1022	

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4175	34543	A	4216	896	1626	NATTIRYEHQ RVLKAAQYLHQ QGITRCNSSSTLTSAAPGRVDSP PTSMIVAPALIIRFACFTASISEL CVPPSEKESGVTLRIPITHLMRE LTCRLIRDKSATVTGSHTLVVA RHCCYAAPGGCCLLANWLKPG LFGPIGVLSRRGTSVILPIGGFY QWNPMICPNGVVPMQHG*RRG LAQERPLEEWLPVCRDMLNAF FLPDAETEAAMTLIEQQWQAI AEGGLAQYGDAVPLSLLRDEL AQRDLQERISQRFLAGPVNICTL MPMRSIPFKVVCLLGMNDGVY PRQLAPLGFDLMSQKPKRGDRS RRDDDRYLFLEALISAQQKLYI SYIGRSIQDNSERFPSVLVQELI DYIGQSHYLPGDEALNCDESEA RVKAHLTCLHTRMPFDPQNYQ PGERQSYAREWLPAASQAGKA HSEFVQPLPFTLPETVPLKRYN DSVRAPTCAESRAIFTSTRNNTL QLFFNANFRRPWARGLATNVN DRRASVDHQIRMFHRIYQVRM RATIRKGIRRDVEDPHYSSDAG TYLSPNSRQISNGNWQSHIGRSP SLLLCRTWGLLFTGKLVETRFI WPNRGVIPTGNERYIAHRRFLP MEPDDMPQWRCPHATWLAEA KMFDSLAKAGKYLGAALKMI GMPDYDNYVEHMRVNHDPQT PMTYEEFFRERQDARYGGKGG
4176	34544	A	4217	838	1575	CFFLSPSPSPSPSPNRSQTTEEE TKRQE/ERERKREEEEEKKGRR KETKKRRNRQEGKQHRKEEKE GEKQTKQRTETERETKRRRENE QAKAHKGTRKRKEEQKAKA ARRRTHKRQNPSRGREGTHPK QRQGKEE/VNRQNKEEAKQKR EEAGRTRR/EDRGRKDDKERR QQQTEKKAKPKAEHGQERTDT TTKKARQREGPSERRRREREE/ MSKHDPQNRAEKTNEEKEEGR QHER*TQKSSTGI



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4177	34545	A	4218	1	692	MNALHAEALEMTSQFDQELAA KFEADHEMALLMNKDFDRDRE EQRRLAEQARREHEERIKREAA EQARRDAEAKHKAIEAAARR EAEEKARAELAERQRIEAEQRA EREKKETEERARREKEEAVAAE RRRQEEAEAAARLVEEQRKAAE EARRAADKEHRRRTVNRR/GLRR SDCSGHPRRIRTESSAGDRWRQ SAGRAHQILRQT*THTSLTTAS KNGAGLSSNSPTRKRS
4178	34546	A	4219	3	1120	
4179	34547	A	4220	1	831	MVKARKIMETPQPAWEMRVRI CTVDWSKLNPIPDFFSLIKSEK KYDHPPELIVDESNLRVVYAPSR YFASEPKADVSLILRNPKAMDS ARNQALLEGYFSFTATEDQLEQ AKSWYNQMMMD/SPEKGKAFEH GNMPA\QMLLQVPYFLRE\ERE H*IIITPILHMRKQEQSG*/RNLP KAAQLSMMQDLQTLLMAASY CSELGHVATQFQGMLACTRNP NSWDRNSETSGKAEGFIPMQLG DVADPSVRCSSVSSLWGHSSPK LLRSVCMANRICVKLQRWT
4180	34548	A	4221	1	1503	
4181	34549	A	4222	1	1113	
4182	34550	B	4223	1	760	
4183	34551	B	4224	1	1755	
4184	34552	C	4225	1	4215	
4185	34553	A	4226	1	3240	
4186	34554	A	4227	1989	2144	
4187	34555	A	4228	1	1203	
4188	34556	A	4229	1	4767	
4189	34557	A	4230	31	512	EYRKSPDIRPIVIQHGEAEITH HFR*QELADKTLIFEITHREMQR FQPVGTGDIREPVVFVFRWRLT NPFNILEHGEPEGIRVDAAVPR AVIGGLEDHIGVAVQKLQHKTF RYFPFIIQMVKDGVVPEGRPAF VHHLSLFLRIKILAHLTHNTQDF
4190	34558	A	4231	369	918	RPGMSNPWRDLFRTGVDPTND RLSALVEI/YRMMRPGEPTREA AE/SLFENLFFSEDRYDLA/VG RMKFNRSLREEIE/GSGILSKD DIIDVMKKL/IDIRNG/KGEVDDI DHLG/NRRIRSVGEMAENQFRV /GLVRCTGTVPFLHQQKCEYH L/PQRPVASTLSRYF*HFRLRNF SMPRANEIKKGMV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4191	34559	A	4232	3	1012	SVVLKIVERVDGYFSPPLFLGA AFGSHVRSRALPDPCLFRVTI YLCVLASVARTFSPLLPVSRKK HITPLGGFQLHETHLCLQDCRTI ILRPRLGEFGNKFSQLVDTIDLH INQHGLAHL*KESARGQYSLLL LGMVSLCALILILWRVVYRSVT CPLADQTQALHRLLDGDIVSPF PETAGVRELDTIGRLMDAFRSN VHALNRHREQLAAQVKARTAE LQELVIEHRQARAEAEKASQAK SAFLAAMSHEIRTPLYGILGTA QLLADNPALNAQRDDLRAITDS GESLLTILNDILDYSAIEAGG\K NVSQSYVARLEPVAASGWHK YPWLN
4192	34560	A	4233	1	502	
4193	34561	A	4234	1	653	
4194	34562	A	4235	2	300	YALATPPLSV/INQWQLALDKG QLPTF/VAGLAPQHPPQYAAMHE SYWPYSALR/EILQRTGMLDGG PKITL/PGDDTPTDAVVSPTSAT NSHGR*VPTLGGVWGL
4195	34563	C	4236	40	105	
4196	34564	A	4237	355	526	
4197	34565	A	4238	116	949	RPGTGRCSAVQLPVLLLRGPHS SHTVGTH\MVDLDSGQLCVYP GNSDESMPAATQARERLLADT AKKKAQIAELQSFVSRFSANA* KSRQATSRARQIDKIKLEEVKA SSRQNPFIREFEQDKKLFRLALE VEGLTKGFDNGPLFKTLNLVLA EVGENLPVLGTNGVGKSTLALK TLVGDLHPDSGTVKWSENARI GYAQAQDHEYEFENDLPVFEWM SQWKQEGDDEQAVRSILGRLLF SQGDIKKPAKVLSGGEKGRML FGKLMMQKPNILIMDEPPTHP
4198	34566	A	4239	1	319	MVKKMARAPMILALANPEPEI LACRHGRKEVRPDAIIC\TPGRS DYPNQSETNVLCFPANVHRIPQ AASHLRAHQSRIPISLMSISAKIL TYLLANQIQFLVKQH
4199	34567	B	4240	263	1390	
4200	34568	A	4241	1	323	
4201	34569	A	4242	3	1855	

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4202	34570	A	4243	2	964	LLKHGVS LYIQDKEGLSALDI.V MKDRP THVVFKN TDP T DVYTW GDNTNFTLGHGSQNSKHHP EL VDLFSRSGIYIKQVVLCKFIISVF LSQKGQVYTWGHGPG\GRI.GT WEMNRHAWVPRLVGRD*MVII VSPSWPAAKDHTVVLTE DGC.V YTFGLNIFHQLGI PPPSSCNVPR QGLHNRQNR RYPPVPGSAGPTS MEPSKIRPTGLKFSLTTQQQSEI DLGCSSLCWDYRREPLRLAYW FIKKDIAKDTDEETRRHGVSL.YI QDKEGLSALDLVMKDRP THV FKNTGSLQFQSIPSCRESQILSEK QGDLFREEPMFGS
4203	34571	A	4244	1	725	FRVDPVRKRHFGLFYAMGIVL MMEGVLSAC*HVC PNYSNFQF DTSFMYMIAGLCMLKLYQTRH PDINASAYSAYASFVVMVTV LGVVFGKNDVFWVIFS AIHV LASLALSTQIYYMGRFKIDL.GIF RRAAMVFYTD CIQQC SRPLYM DRMVLLVVG NLV NWSFAL.FGL IYRPRDFASYMLGIFICNL.L.YL AFYIIMKLRSS*KVLPVPLFCIV ATAGMWAC\ALYFFFQNLSSW
4204	34572	A	4245	1	833	MKPVWVATLLWMLLLVPRLG AARKGSPEEASFYYGTFPLGFS WGVGSSAYQTEGAWDQDGKG PSIWDVFTHSGKGKVLGNETA DVACDGYK VQEDIILLREIHV NHYRFSLSWPRLPTGIRAEQV NKKGIEFYSDLIDALLSSNITPIV TLHHWDL PQLLQVKYGGWQN VSMANYFRDYANLCFEAFGDR VKHWITFSDPRAMA EKG YETG HHAPGLKLRGTGLYKAAHHII/ KAHTL*VCFHAADKGIPET EKK RRLNWTYSSTWLGRFHNHGRG
4205	34573	A	4246	1	672	GTQNAVNG/VIIFLSWGDAVKS FWIYRGGRKREGPLFHA*Q\FLI YTHIRAVGSIINYVIAN YK.L.KFI TPGVIDFICTSLIAGILTIKFLLI NQFEKQ QIKKGRDITSARIMSR I IKITHVGLVLLYGEHFGMSLSG LLTFGGIGGLAVGMAGKDILSN FFSGIMLYFDRPF SIGDWIRSPD RNIEGTVAEIGWRITKITTFDNR PLYVPNSLFFSSISVENPG

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4206	34574	A	4247	1	347	PLRP\GQPGPGGAGT/RALRAP LPSSSELCYGPQQPGRWP FSLPPHSS*LLHTGHWPC CFIPILRAAPLPCKCASP TYPLPAAPSLPVLVHTSIK HLQ
4207	34575	A	4248	43	446	VLPVPRPGQ/PPCVPA PPRPSPGWSQATGSPG SWR\GLPAVPGHTAGV GQRQPGPGGAGTQLCG RLLNVAYGPGQPAL/RN APALTPSPQHLLCPFLS SVFIC
4208	34576	A	4249	1	1521	RIPESRLPTTAFVQAP GLRRWEKHAGQQVGGW GVRGRQAAGGGAAALTC AGSAVRSCAGLPSLASG LHPSYSFGFKVGS/PTV *STS/RGREHGGVTVPV PRS\PDGPARVEDCEAIA WL\QQGIGTRPPGTGLG APAVPQWNPV\KSCQGP LPSHGSSGEAGRGW/RG QL/PEVTHRRVLPGDHP GFGTG*PGLPGRVPGPV QAKALTPLGPVGLLAPAS LQQSADGPGATGHL*ELA RRQPTG\PPGQLAVSGWA VPAAPRPFGAQQA/SVPT WA/GSPGAAAWPESHRR* WAW**VLPVPRPGQ/PP PVQ\PQSHRGPAHDGARLY PQAEQLHPGGGLPAVPG VLGPGPPGQRQPGPGGAG CGPHLFLCFLNVAYGPGQ WPRCPQFPFLPPILSWNIF QKKKKKNQSFLKKKKKK
4209	34577	A	4250	167	582	RSLGLAVTEMVPWVRT LKQRLRLDVGREICRQY LLLCLSAASLLLNR*RR RL/SL/LKVQTPGPCCLTV CGTGDQWGERAPQRSGLG GASRPEAQAGGVGLIASF SPELPFSHP

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4210	34578	A	4251	402	1465	DLILSHPTAWFTIKYKPKQLGL QELFPQGHSCAVCGKVKCKRH RPSLLLENYQPWLDLKISSKVE ESLSKDLELVLENFVYPWYRD VTDDSFVDELRLTRFFASVLI RRIHKVDIPSIYNQETIKSSNESI *KWIVKARQKVKNTEFLQQAA LEEYGPHELHVALRSRRDELHYL RKLTTELLFPYILPPKATDCRSLT LLIREILSGSVFLPSLDFLADPDT VNHLLIIFIDDSPAEKATEPASTL VPFLQKFAEPRNKKPSVLKLEL KQIREQQDLLFRFMNFKQEGA VHVLAQFCLTVEEFNDRILRPEL SNG*NAVSS/WKNCRRFIKHTV WMKVLTKLDLIPSLVEEIPR
4211	34579	A	4252	1	1232	FPGRFRFLVVRRLRGAEAAASERQ VYSVTMKLLLLHPAFQSCLLLT LLGLWRTTPEAHASSPGAPAS AASFL*DLIHRYGEGDSLTLQQ LKALLNHLVDVGVGRGNVSQHV QGHRNPTTCFSSGDLFTAHNFS EQLRIGSSELHEFCPTILQQLDS RACTSENQENEENEQTEEGRPS AVEVWGFGLSVSLINLASLLG VLVLPCTEKAFFSRVLTIFYALS IGTLLSNALFQLIPERSYKNKAQ VDSLPTFLAQAGMLLWRVRIR RRVVDPIRESWMLPFTKIPLWG YGLLCVTVISLCSLLGASVVPF MKKTFYKRLLLYFIALAIGTLY SNALFQLIPENRRKWWQPVHN TFGGSTAWHTDKSIEQSIDTLFD EVKKESEKETPSLQIGDLGPQES LKTFNNTNSPHH
4212	34580	A	4253	3	924	VGACTAAARPLPIPLQPIHHR GEKSQLWAHSGSSWGFLAVAA VPPSHLCPLQSRGWKRPP/PLA SAGVLPGCCCCACLVSPSLAQ AG/LGPKPAAPLPGPWVSVAP CSRPGPCPGTRSPA/P*GHPAMG R/GVHEPRVGPAPPEKAIITETG AGLAERRGQGLGGGSSFRSAEP QGCRSLGPQSPGGDPAHTILRPP SQNGDCAEMHACRLHPAILGT HGTGGLAAQSHAPRALLPSCPS SQQPADGWCSLHLCPLGLLAP RIHGPSTREGGPGHGTGPTNP ASSGATRGRVRVPSVPRSPTL

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4213	34581	A	4254	1	318	VADPVGAARAGGQPLAGRVW PRAGGGHSPRVLGAAGPGPHV CTLRPLGTAIRTEPGAPLACAR AWPGSSPAG/PECLPTSC*P*EG QEPSSHVASLPWGPVGGETQ
4214	34582	A	4255	1	718	FFFFFFFSLCHLYWVSPTPGPHG KLANMANWAPWPS*GLSKLVG KHSCPAG*LPGHARAQASGAP G/ISPDSSAREA*ECT/PCGPGPA APSTRGECPPSSSRPHS/SQQDP GRCSFAPAVPQDAGGQGHWCC APATGHSAPRGCPPARAAPTGS ATPAPPPAACAASSLSMVSAPS R*TTGIASSGTSIPETKHQGT TAPAGT/GPGGSTGPKA/PGPAP AHPTRLAGTSGHTAPPTCPPAV
4215	34583	A	4256	702	1026	RSGRTQRAAGVSGSALHQVQS WP\HLKISADQRAGLLF*EHPFP PSASSGCLDVSISSYPVGSDFIN GMARANGRWKTFTGLHSGKPL GFSDAFCQHNLHLWCWKTW
4216	34584	A	4257	170	1049	RSGGCSAELVPSSRWPGSRAG AAAGTETPG*PRVYVPAGNGE AGGPGAAWARRAAALPGTAA GPPRPAARPGAAPARGGPAPGA PAQALPR/TPTWPAAR*AQRAP SPPSWGSAQPGHPGDLAAGVG RGAGGGHSRRGRHHHVRSLAD LLQLPGAAEGAGDRGHLPGPD/ GERS*AASSFSAAGRAAGTASC CSAGGTPPSPCTILSTSSSLAH VASSS/RRRAEGDTKVS/RGRAE GQDSETGREPGVLHRGSGRTQ RAAGVSGS/RSAPSPVVATTSRS LLTSVQGCFSENILSP
4217	34585	A	4258	178	556	QSPQEHFHPECGRRDILCQVRQ EIRWPNPGEVHHLGLEICPVWI LQLHLALRTRAPEHPLQVHRPG GGAV*RGVPPPLRLLQACDGP VPAAGRPRPARSSPGQWPP*/PA AVAPPVTERPPTPSAA

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4218	34586	A	4259	5	1044	TGRILDGWHWAKELRLDCPLG DSRRPPFSRVSTEGSPAFLALRL PNVTAGS*EVSMLASTETPLVIT RSPG\GHDPGPAPRGAAASPA GSPAP*QKSPRPLSAAAPLLAS DPAPPRAAAPADTESSVQPPA APHAGPWT\PSAPGPLDVHSPPP \PSRGPVQSSAEPHNRPSGAT RPRP\PPRGAAASPAGSPAP*QK SPRPLSAAAPLLASDPAPPRAA APPADTESSVQPPAAPHAGPWT LERSWAP*RSLPTPIPVADPLCR APLSHRYP*GDCQRSGLCHTSP GRASHLPGGAHKRTPHACWL PLECHRRSPHP*THPSG*PGPSP QSFFPEFLGSGP
4219	34587	A	4260	2	576	CLVNSTTRRSFQLRLVPVPKFQ PPHMTVR*LFNFGRLTATTFS/ LRKSYAVREAYELQNCPPPPF QNGYMINSDYSVGQSVSFECYP GYILIGHPVLTQCQHGINRNWNY PFPRCDAPCGYNVTSQNGTIYS PGFPDEYPILKDCIWLITVPPGH GVYINFTLLHTEAVNDHIAVW YENLSSQNICDCDQQF
4220	34588	A	4261	1	837	MWAGNAWRAALSGVPCGRSA QSVLAQLRGILEGELEGIRGAG TWKSERVITSRQGPPIHVDGVS GGILNLTSVRFIRGTQSIHKNLE AKIARFHQREDAILYPSCCDAN AGLFEVLLRPEDAVLSDELNCA SIIHGICLCKAHKYHYCHLDVA YLETKLQEAQKHRLFLVATDG AFSMDGDIVPLQKICRLASRYG ALVFVDECHATGFLGLTGQGT DELLGVMGQVTIINSTLGKALG GASGGYTTGPGPLVSL/RAQP YLFSNSLPPAVVGCTSKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4221	34589	A	4262	1	2142	MIILIDAEKAFDKIQPPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
4222	34590	A	4263	1	1989	
4223	34591	A	4264	1	1104	
4224	34592	A	4265	1	879	
4225	34593	A	4266	1	1659	
4226	34594	B	4267	1	1500	
4227	34595	B	4268	1	1962	
4228	34596	B	4269	1	1716	
4229	34597	A	4270	1	1152	
4230	34598	A	4271	1	4752	
4231	34599	A	4272	1	2790	
4232	34600	A	4273	1	3477	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4233	34601	A	4274	1	1007	MLDASCHRTSDSKFFSFGVQTG FLTPELAHLVGPCDRDHNSSPA REQNWTENEFDELTEVGFRKW VITNSSELKEHVLTQSKEAKNL EKRAIKQEKEIKGIQLGKEEVK LSLFADDMIVYLENPIVSAQNL LKLISKFSKVSQYKINVQKSQA LLYTNNR\SQIMSELPFTIAMKR IKYLG IQLTRDVKDLFKDNYKP LLKEIREDTNKWKNIPCSWLGR INIMKMAILPKAIYRFNAIPIKLL *TFFTELEKTTLNFIWNQKRARI AKTILSKKNKAGGITLPDFKLY HKATVTKTAWYWYQNRIDQ WNRTEASEITPHIYNHLIFDKPE
4234	34602	A	4275	737	2460	RIKYLRIQLTRDVKDLFKENYK SLLNEIKEDTNKWKNI PCSWIG RMNIIKMAI/LPKVIYRFNVIPIK LPM TFFSELEKSTLKFIWNQKR ARIAKTILSQKNKAGGIMLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTEPSEMTPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI GRQLKLD PFLTPYTKIN SRWIKDLNVRPKTIKTLEENLG NTIQDISMGKDFMSKTPKAMA TKAKMDK WDLIKLKS FCTAKE TTIRVNRQPTWEKNFAIYSSD KGLISRIYKQLKQIYKKKTNNPI KKWAKDMNRHFSKEDVYAAN RHMKKCSSSLAIREMQIKTIMIY HLTPVTMAIIKSGNNRCWRG CGEMGTL LYCWWDCKLVQPL WKT LWQFLRDLELGIPFDP AIP LLGIYPKDYKSCCYKDTCTPKL ARDDQIHILKQHRRKELETRQK QYRAWYEINPFH SVWPV TAGK SPRHQLPVWVHNPQTSPYLQL QTRDGEESNENNFGSTILASDFF AEIDKLSILQIHMEMEGTQNSQ NNLDKKKTKMEDLHFSISKLLH SYSIQDNVISA
4235	34603	A	4276	3	355	RQPVHLVHELPQQSWGICLNSS EQHGALQHSSLHL/RMCSEPWS SADPQ*R*TCRNL*LPVRGP PRR TDLFSVSSKSTLKEWPLLLMIL AELGSYLILSGRREESYFTSLVL ISIGDC
4236	34604	B	4277	78	791	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4237	34605	A	4278	1	3395	MIISIDTENAFEKIQQPFMLKTL NKLIGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV MARVIRQEKEIK GIQLGKEEVKLSLFVDDMIVYL ENPIVSAQNLLKLISNLSKVSGY KINVQKSQAFSYTNNRQTESQI MNGLPFTTASKRIKYLGIQLTR DVKELFKENYKPLLNEKKVDT NKWKNIPCSWIGRINILKMAIL P/KELEKTTLKFIWNQKRACIAK SILSKKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEI\PHIYNHLIFDKPDKN KKWGMGSLFNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI DMGKDFMSKTPKAMATKAKID KWDLTCLRSFCTAKETTIRVNR QPKWEKIFAIYSSDKGLISRIY KELKRIYK/KKNNPIKKWAKD MNRYF*KEDIYAANRHMKKCS SSLAIREMQIKTTMR/YHLTPVR MAIIKKSGNNRWEMNNENTWT QEGEHHTLG/HC/WWKARRSRS CLTWMAAGKKRMRKTLQMT
4238	34606	B	4279	1	2011	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4239	34607	A	4280	1	2661	MTMNFVADSHTGRNPLASAAG AKTGLRPLPRPCGARVWNPPD AGGGGVGSLKTSTPLGPLSAAN SPVHQGSVPQTRARGGGTLFQE VVTSRTLAFRNSLSAFTEVTSG TVSGRKGGRSTHLAGRRVSGG EGSRKAAAAAALAAVAAAPGPV RRCSSQSCFSSSGSSHYSARTSP VRVPRRSLSSRSAAGNRAEAT ESAMEKTLETVPLERKKREKEQ FRKLFIGGLSFETTEESLRNYE QWGKLTDCVVMRDPASKRSRG FGFVTFSSMAEVDAAAMAARPH SIDGRVVEPKRAVAREESGKPG AHVTVKKLFGGGIKEDTEEHL RDYFEEYGKIDTIEIITDRQSGK KRGFGFVTFDDHDPVDKIVLQK YHTINGHNAEVRKALSRQEMQ EVQSSRSRGRGDGYGSGRGFGD GYNGYGGGPGGGNFGGSPGYG GGRGGYGGGGPGYGNQGGGY GGGYDNYGGGNYGSGNYNDF GNYNQPSNYGPMKSGNFGGS RNMGGPYGGGIWKNTSITERK KSRKLDLIQSKKGSRTKEAPQP PVASLCMHLGHWSRLMVSPGA QLTGKNSHGLSVSSVRKSNVGP RRLCAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCTD RPHPFLSRPKPPTQISLVLPKT DGALERMPQQL/HIASS/GAKVP NPSTQTPPVLLAFFYPFNLPP*N
4240	34608	A	4281	1	908	MRKVKGKNRQSFKCLPPPSGA LQAHGAAAPHGSLTLHLHLV PVSSAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCED RPHPFLSWPTWISLALLKTDG ALERMPQQLPSLHPSQGTQSIH PDPSSSTSSFLPFQPPTLKRAAFP CPPSIVNPAVWDTSTPSVAEHH TPIRITLKEPTQFLSQKQYPIQQA ALVGLQPIHLLASHLLRPTDS PFNTPILPVKKPNGTYRLVQDL RLINQAVLPLVQE/DYSVLLYLP LNVTPGLPPATAFSYPPSPGPVA RARLASRLHSHAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4241	34609	A	4282	1	915	MPNYVTFTDTKQLISDTPNNQV PMNRASMAFDAKCLTGCRFDD AIVQFDMTYWPFTVVNDAGRP KVQVEYERDKLLPIGGVFYGS DKDEGNCKSLPWEDCYQCCET SQNVQDFLFLDVTPLSLDIKTA DGVMAVLIKCDATIPTRQTQTF TTYSDKPSM/LIAKDKNLLRKFE LTGVPPAHHGAHQIEVTFDINA KGILNVTLTDDKGHLSKEDIEP MVQETEKYKAEDEKQORDKVSS KNSLDPYVFNMKATAEDEKLQ VKINNEHKQKILSKCHEINWL DKNQTAEEFEHAQQELEKSS
4242	34610	A	4283	1	994	MHQTKKGNQWHFGMKAHIGV DAKSLTHSLVTRPNEHDLNQ LGNLLHGEEQFVSADAGYQGA PQREELAEVDVDWLIAERPGK VRTLKQHPRKNKTAINIEMKA SIRARVEHPFRIKRQFGFVKAR YKGLLKNDNQLAMLFTLANLF RADQMIHCTRGEGLITTKIPKAP DNGSYCLPSKNDDSEEDPEMS PMVVTKMKEIAEAYLGKTVTN AVLTVPA YFNDSQRQAT/KKDA RTIAGLNGLRISNEPTAAAIAYG LNQKVGTERNVLIFDLGGSITPR IRTPETGSDDAIKSILEQAKKEIE SQKGGECDPCRQSLRPPGPAAN
4243	34611	A	4284	3	677	
4244	34612	A	4285	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKKQRLARAEEK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQLVCRKMGPV YCIKGGKARLGRLVHRKTCTTV AFTQVN
4245	34613	A	4286	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKVVNPLFEKR PKNFGIGQ\QRLARAEEKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIKGGKAR LGRLVHRKTCTTVAF
4246	34614	C	4287	62	217	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4247	34615	A	4288	2	801	PKGKKAKGKKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTRFVKWPRYIRLQR QRAILYKRLKVPPAINQFTQAL DRQTATQLLKLAKHYRPETKQ EKKQRLLARA EKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVDPIELVVFLPA L\CRKMGPV\YCIK GKARLGRL VHRKTCTTVAFTQVNSEDKG\ ALAKLVEAIRTNYNDRYDEIRR HWGGNDLRPK\SVARIAKLEKA KAKELATKLG
4248	34616	B	4289	1	273	
4249	34617	A	4290	1	441	
4250	34618	B	4291	47	482	
4251	34619	A	4292	1	762	
4252	34620	A	4293	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLSHF EQWGLTDCVV MRDPNTKRSRGFGFV TYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGSR GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
4253	34621	A	4294	1	1674	
4254	34622	A	4295	1	506	KYHTVNGHNCEVRKALSKQEI ASASCSQRGRSGSNFGGDRG GGFGGNDNFGRGGNFSGHGGF GGSCCGGGYGGSGDGYNGFGN DASNFGGGGS/YNEFG/NYNNQ SSHFGPLS/GGNFGGRSS/SPLGG APASTYVKGPNSQRTQNEGWF EG*APWRGDGGARGNKGGGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4255	34623	A	4296	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRSIVK VSLLPVIGLKSFLKKPDQLR KLF\GG\LSFETT\DESLEEFPSR QWGKRYTDSVVMRDPN\TKRSR G\FGFVTYAT\VEEVDAAMNA RPHKVEWKELLEPKRA\VSRED SQRPGCPH*LVKKIFVGGIKEDT \EEHHLRDYFEQYKGKIEVIEIMT D\RGSGKKRGFA\VTFD\DHD\S VDKIV\QKYHTVNG\HN\CEV* KSPVKSCKMASASSKPKEGRSG FWETFGGGSWEVGFGGN\DNF GRG\GNFSWSVVAFGGSRG\GG GYG\GSGDG\YNGFGNDG\SNF G\GGG\SYNDFG\YNNNQ\SSNF GPMKGG\NFG\GRSSGPYG\GGG QYF\AKPR\NQGGYGGSSSS\SN
4256	34624	A	4297	1	920	DPGDTNPNTASAPNCRSGKGRSS SPEHIPPLEKLEDSMQTNPSTNP EPGRLAEWLDPEERQQSLQFGL QEATSIGKGGQYYIKGTPHGTK ESEQQPSALDLPDRAYPNEKE PENQLWRLVIKLIKEAPEKGAY LNVIKAVYDKPTNGEKLRAFPL RTGTHRCPLSPLLFNILLEVLA RAIRQEKEIKSIQIGKEEVKLSLF ADDIIIYLESPKYSSRKLQELIKE FSKVSRYEINVHKSVALLYTNS NQAENQIKNSASFTIAAKNKIK YLGIIYLTDAKDGKENVYKTL MKEIIDDKNKQKYIP
4257	34625	A	4298	1	1194	
4258	34626	A	4299	3	1834	
4259	34627	A	4300	285	502	
4260	34628	B	4301	77	1306	
4261	34629	A	4302	1	354	
4262	34630	A	4303	1	1182	
4263	34631	B	4304	1	1995	
4264	34632	B	4305	1	1518	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4265	34633	A	4306	1	918	MCPVGPWTHPVVISPVSECI VGI DILGSWQNLHIGSLTDITMVHYI DDMMLIGSSEQEVANSLDLLV RHLHARGCKINPTKI QGTSTSV KFLEFQWCGVCQDIPSKWVLE QKALQQVQA AAVQAALPLEPYD PADPMVLEVS VADGVAVWSL WQAPIARIHGSRNQGV E VEVSP LTNIPSDPLAKFLFPAPSTLCSA GLELLVPEGGTLLPGNTTMIPL NWKLR LVPGYFGLLLALSPQA KNGVTVLA EVIDPDYQDEITLL FHNGGGE EYARNTGDPLRHLL VLPSPMIKVNGK\ LQHPNPGRT
4266	34634	B	4307	1	1599	
4267	34635	B	4308	1	1569	
4268	34636	A	4309	3	422	
4269	34637	A	4310	1	1089	
4270	34638	A	4311	2	549	LKMTAMQRPMEKRMMNREIL KERLSLTGIDIKILKKRSIMKVE SHRGEQISVSSLALQRIKYLGIQI TRDVKDLFKENYKPLL NKLKE DTNKWRNVPCPRVGRISIVKM AILPK/ILKKKTTLKFIWNQKRA HIAKTILSKKNKAGGITLPDFKL YYKAT/KTAWCWYQNRDTDQ WNRTKPSEI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4271	34639	A	4312	371	3036	LIAYQPKKVQDQMDSQPNSTR VLEVLARAIRQEKEIKGIQLGK/ EEVKLSMFADDITAYLENPIVS APNLLKLISNFSK/VSGYKINVQ KSQAFLYTNKRQTE\QIMSELPF TVASKRIKYLGIKLRRDVKDLF KENYKPLLNEIKEDTNKWKNIP CSWIGRINIVKMTILPKVIYRFN AIPKLPMTFFAELEKTTLKFIW NQKRAHIAKTILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNRJEPSEIHPICKH LIFDKPDKNKKWGKDSL FNKW CWENWLAICRKLHLDPFLTPYT KINSRWIKDLNVRHKTIKTLEE NLGNTIQDIGMGKDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIRETYNDR RIGKLTQTCDETAQPHVCTISR PMLSSPYRSSLTEKWSQDFSKP PYPFLFHKGYNPREQDKEVLT RAIRQEKERKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNPLK VVS NFSKVSGYKISVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLRQLTRDVKDLFKENCKP LLNEIEEDTNKWKNIPCSWIGRI NIVKMAILPKVIYRFNAIPKLP MTFFTVLEKTTLKFIWNQKRAH
4272	34640	B	4313	1	1995	
4273	34641	A	4314	3	549	
4274	34642	A	4315	3	614	EAYGQTECTGGCTFTLPGDWT SGQFINILEMCLELSPCKSFSAD SARYVLGHVGVPLACNYVKLE DVADMNYFTVNNEGEVCIKGT NVFKGYLKDPEKTQEAL\DS DG WLHTGDIGRWLPDIENHNRLIV CTLTNTSWRSHKIIVLKTYQKA DDTKTPKETTFQNMNLFLEK RATAVLIRGGVGETSTDLSKKK PAKLLANF
4275	34643	A	4316	1	478	MKLDLHLSPTYTKINSRWIKDLN LRPETIKILEDIIRKTLDDIGLGK DFMIKNPKVNATKTKINKWDLI KLK\NFCTAKEISSREIREPTEW EKIFANSASDKGLISRIYKELKQ IRSTLQLLFGISELPASLFLGFGA IMKSKKASLNTSTAILRQLIW



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4276	34644	A	4317	1	1125	MCHGIGAQIIPSHQTVQLDITAF LKT V K K N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G F I E N M F F V S A N P W V S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I G G P L E S P D R D G G P L E S T N R D A S P E S W S C R K S T P R L V A W V S A A K V F I R D K L M E R R N R T G R T E K A R I W E V T D R T V R T W I G E A V A A A A A D G G G F R V D L A R R S I R K D R N A R S Q N P V H T E G D M N M N I K K I V K Q A T V L T F T T A F L A G G A T Q A F A K E N N Q K A Y K E T Y G V S H I T R H D M L Q I P K Q Q Q N E K Y Q V P Q F D Q S T I K N I E S A K G L D V W D S W P L Q N A D G T V A E Y N G Y H V V F A L A G S P K D A D D T S I Y M F Y Q K V G D N S I D S W K N A G R V F
4277	34645	B	4318	1	1374	
4278	34646	A	4319	1	1293	
4279	34647	A	4320	1	1278	
4280	34648	A	4321	1	1254	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDV DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDS KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVN GYYCEESL FNKA\YYGGGTNFF RKESQKLQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSN SLTGPYKPLNKTGLVLQ MGLDPNDVTFTYSHFAVPQAK GNNVVITSYMTNRGFFEDKKA TFAPSFLMNIKGNKTSVVKNSIL EQGQLTVN
4281	34649	A	4322	1	726	
4282	34650	A	4323	1	1050	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4283	34651	A	4324	1	1185	MNMNIKKIVKQATVLTFTTALI AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISIDSWKNAGRVEKDS KFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKH YKQSLTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDK GHIKYLVEANTGTENGYQGE ESLKNKAYYGGGTNFFRKESQ KLQQSAAKKRDAELANGALG HIELNNDYTLKKVMPKPLIT SN/TVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIK GKNTSVVKN SILEQGQLTVN
4284	34652	B	4325	1	867	
4285	34653	A	4326	1	495	
4286	34654	A	4327	3	1394	GDMNMNIKKIVKQATVLTFTT A/LLAGGATQAFAKENNQKAY KETYGVSHITRHDMLQIPKQQQ NEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYN GYHVVVFALAGSPKDADDTSIY MFYQKVGDNISIDSWKNAGRVE KDSKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTGDPLEAETA VINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEH DGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEV VFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDW IIERYQLPQSYQRTPDFRRR FLQVCVNEING
4287	34655	B	4328	9	1004	
4288	34656	A	4329	1	768	
4289	34657	A	4330	1	1308	
4290	34658	B	4331	58	753	
4291	34659	B	4332	1	409	
4292	34660	B	4333	1	921	
4293	34661	A	4334	1	1026	
4294	34662	B	4335	1	945	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4295	34663	A	4336	1	528	MNMNIKKIVKQATVLTFTALL AGGATQAFKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFY/Q KDQTQEWS\GSATFTSDGKIRLF YTDYSGKHGKQSLDTA\Q*NV VKSG
4296	34664	A	4337	1	1701	
4297	34665	B	4338	97	1449	
4298	34666	A	4339	1	1581	
4299	34667	B	4340	1	1539	
4300	34668	A	4341	87	1078	SLPNLDNAAICSSSSSPTRTR*SL SEGATQAFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGPLESPSTHQA EFNPTS CVSSLGTLQGFPAPAWLAL AHP VHPLKHKSGGSNRLSAAIWGIK RKPAR
4301	34669	A	4342	1	1344	
4302	34670	A	4343	1	1713	
4303	34671	A	4344	3	1918	
4304	34672	A	4345	254	1118	RPPAFACK*PKAYKET/YGVSHI TRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR VFKDS DKFDAN DPILKDQTQEWSGSATFTSDGK IRLFYTDYSGKHGKQSLTTAQ VNVSKSDDTLKINGVEDHKTIF DGDGKTYQNVQQFIDEGNYTS GDNHTLRDPHYVGGTSWEPGV FSVSCVFFGQQEGV/HG*DEFLD FSYWFQGG*ICLYQKAS*QNTT SYKRYTGS

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4305	34673	A	4346	1	1952	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFQDHTGTEHPQPQIERP RTQSFTSAFAERRECIPNVPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEK RKKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPPTHMEGFEL FHLPLDLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNV VIT SYM TNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTV
4306	34674	A	4347	1	1029	
4307	34675	A	4348	276	1248	CVWLGCGRGYYPKAYKET\GV SHITRHDMLQIPKQQQNEKYQV PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKH YGKQSLT TAQQLQLVQFQEVDTDFDFPE EDKKEEFEECLEKFFSTGPARPP TKEKVKRRVLI EPGMPLNHIEY CNHEIMGKNVYYKHRWVAEH YFLLMQYDELQKICYNEFVPSV IFLRYKSPGEAAGTCHLKQRRW VMPEAAAPVGTGSRYPLTGQL
4308	34676	A	4349	1	242	MNSIQIPKQQQNEKYQVPQFDQ STIKYIESPKELDVWDSWPLQN ADGTVAEYNGYHVAFALAG/S PKDADDTSIYMFYQKI
4309	34677	B	4350	1	2198	

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4310	34678	A	4351	1	2796	
4311	34679	A	4352	2047	3531	
4312	34680	A	4353	1	3336	
4313	34681	A	4354	1	1409	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGV MARG NAITLPVCGRDVKFTLEVLRGD SVEKTSRVWSGNERDQELLTE DALDDLIPSFLTGTQTPAFGR RVSGVIEIADGSRRRKAAALTE SDYRVLVGELDDQMAALSRL GGATQAFAKENNQK\AYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDGY LLEPDGGALQNFQRYTGIQHVH RIGMAERMWCDNRNRERTVSS SGGNRLPNPGPDRSVRHFPDPR FLCPSCATVTPLELIANKYLSG KIGAKKLRLIKHVD
4314	34682	A	4355	1	2316	
4315	34683	A	4356	93	924	AQTDAAEKSVSIAQLFQACLSIF SSGDV/AGGATQAFAKENNQK AYKETYGVSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESA KGLDVWDSWPLQNADGTVAE YNGYHVVFALAGSPKDADDT IYMFYQKVGDN SIDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KH YGKQSLTTAQVNVSKSNDT LKINGVGKYKTIFDGDGKTYQT VQQFIDE GNYTSGGHHTLAKDP SYNPPLDLSGGNSGYQSQET

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4316	34684	A	4357	1	3118	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLARDPHYVENKG HKYLGFTNTGTENGYQGEESL FNKAYYGGGTNFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLFDTSRGSK MTIDGINSNDIYMLGSDESPND FGNRHLHKERLAVYRWHASFI CSGNTMPIVLVDWSDIREQKRL MVLRASVALHGRSVTLYEKAF PLSEQCSKKAHDQFLADLASIL PSNTTPLIVSDAGFKVPWYKSV EKLGWYWLSRVRGKVQYADL GAENWKPISNLHDMSSSHSKTL GYKRLTKSNPISCQILLYKSRK GRKNQRSTRTHCHHPSPKIYSA SAKEPWVLATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQ
4317	34685	A	4358	1	1326	
4318	34686	A	4359	2140	4390	
4319	34687	B	4360	1	7271	
4320	34688	A	4361	1	1729	
4321	34689	A	4362	5118	5687	
4322	34690	B	4363	1	4726	
4323	34691	B	4364	1	3688	
4324	34692	A	4365	1	1401	
4325	34693	A	4366	1	1932	
4326	34694	A	4367	1	1407	
4327	34695	A	4368	1	1491	
4328	34696	B	4369	1	855	

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4329	34697	A	4370	137	1014	ASEGKQMLRDFVTTRSALKELL KRALNMARNNQYQPLQKHAK L*RP SML*RNCIN*QPGRDT/TN KKENFRPISLMNIDAKILNKILA NRIQQHIKKLIHNDQVGFIPGM QGWFNHKSINIIHHIKRTNDKN HMIISIDA EKA FNKIQQPFMLKT LNKLGIDGTYLKIIRAIYDRPTA NVILNGQKLEAFPFGTGTRQGC PLSPLLFNIVLKV LARAI RQETEI KGIQLAKEEVKLSLFADDMIVY LENPIISAQNLLKLISNFSK/VSG YKINVQKSQAFLYTINRQTESQI
4330	34698	A	4371	3	1234	
4331	34699	A	4372	1	2850	MGMGPAKPGMGGNLLVCWLQ RPWEKRSIWA EYVRSSRYSHS WLPLSRKGCDFSGTQRQTL SIL TQPLRQWGLEGIKKPNSWIIEE SVSNGGPPLLIPRQTASGV DLQ QTPTDLQLRVLT VRRKTNKQK GIASTSTKRTSTPKPHLYVTI IK DQSYIKPQRWGKNIAEKLKILKI RVALSLQRNAAPHQQWNKAG RRMSLMSSQKKASEVIESQMN EIKGEEKFREKRVKRNEQSLQEI WDYVKRPDLRLIGVPD
4332	34700	B	4373	16	701	
4333	34701	B	4374	1	3743	
4334	34702	A	4375	227	686	KVMLAEYPVFAQLTLTLPSSA SWEPSRGPGRGIRGSCPEWLA SGPG\KAAPGAGVPPPAASFDP PPRLRAPALAVSRGLRRELPSG LDWTHCLRTLPSLIVQILQQAA LLGLPPAYS DQLQRAGQLHFYS GLIKISLVLTTRLSFWGTTE
4335	34703	A	4376	216	644	VTYSKEKECEGVADSVAKTAL EKDGAPRTGDPRPNLGADPPRS LVSSAGPQAVRPVKPARQFPPQ PPRYSQGPARAAGEEGRGMRPP GAGRRLPGPPLPGPEASHGSQL PLM/PPGPGPRLGSQEPVSLSR Y LQTQARMPGPRP

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4336	34704	A	4377	18	1023	QIQHSPLVSPPLSPPLVAAEE EPPVA/PWPRLLPATSTSH/PSH PLTEPVPPTSGRGCLWTKRQ QKMCRTTYTSVGRK/CTFPIDS GALRLSDGEMRALQTPTGPQST VEGHTHLQSL/PHHDRVATPG TEPGLRAAGNRRIFYPGP/VTSQ VQPQLLCGYGNASRTPAALTPG PAPPTQASLPNCGICPHLQMGR PTSPC/PPEGGHPSSSLYISLSPPP PSAPALRLPPPL/SAPTAPAL/P/ PAAPSAPALRLLRPLCCSFRPR PAAPSAPARLLPPLLVCSEFRPC PAAPSAPAGLLLPLLCCSGLSP RLCCPHSSCSSDPPRLQRKADSS
4337	34705	B	4378	1	984	
4338	34706	A	4379	332	847	VKLLQDKEICILCQKTVYPME CLVADKQNFHKSCFARCHHCNS KLSLGNYSALHGQIYCKPHFKP TFQNPKNYDEGFGHKA\HKD RWNWQKPKADSVDFIPNEEPN MCKNIAENTLVPGRNEHLDA GNSEGQRNDLRKLGERGKLV IWPPSKEIPKKTLPFEEELKMSK
4339	34707	A	4380	305	505	GNLERMLNLGMVKQKLPAM KTQVLML*AINVPAKPLFPQSG GAVRTTHGGKSRLKETGATSD TE
4340	34708	A	4381	56	260	IVKTQSIDG/MGNLRITEKGLKL EGDS/EFLQPLYAKEIQSRPGLG TQEQSCQTLSSCSSRGQQQHA
4341	34709	A	4382	137	920	
4342	34710	A	4383	532	1680	LLTTRTSFRSENHRHVGLLLVM TDNTRDKEYFGDESKRENEEKT VEKSIGEKQATLTTHANIITIRH CVKPEPDFSDHLNLLLGRADIT GEEMAAQRSSVEKLANGNIAL VDSLRSRSLEEGSDPHKRLSG AQDIKTTVEEVIADVVEIARELE LEVEPEDVTEFLQAHEKTLTDV ELFLINEQIKWFLEMKSTPRED AVIIAETITKVLEYDINLVTKQQ QGMRQLTPILKEVLLWVKCHQ TALHATEKPFIKGRINPCGKIHT CLNLRNCGQLLIREEEEEEDKEE EEQYEEKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEDKE DEEEDKEKEEEDNKEEEDKE KEKEEEDKEKEEDKEEEDK



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4343	34711	A	4384	3	495	EDTGTFRIFY\ESAGAVKKARGF LEFVEDFIQVSKNLIGKVIGKNG KVIQEIVDKSDMVPVRIEGDSE NKLPRDKDDRDSRHQRDSRR CPGGRCRSVSGRRGRGGPRGG KSSISSVPKDPDSNPYSVLDN/T ESDQTADTDASKSHHSTNRHTR SRRRRTDEDAVL
4344	34712	A	4385	1	550	TESERKDELSDWSLAGEDDRDS RHQRDSRRRPGGRGRSVSGGR GRGGPRGGKSSISSVLKDPDSN PYSLLDNTESDQTADTDASESH HSTNRRRRSRRRRTDEDAVLM DGMT\ESDTASVNENGL\AKDV IEEHGPSEKAINGPT\SASG\DDIS KLQRTPGERKRLIP*KKENTQE AAVLNGVS
4345	34713	A	4386	1	2063	MAELTVEVRGSNGAFYKGF DVHEDSLTVVFENNWQPERQV PFNEVRLPPPPDIKKEISEGDEV EVYSRANDQEP CGWWLAKVR MMKGEFYVIEYAACDATYNEI VTFERLRPVNQNTVKKNTFFK CTVDVPEDLREACANENAHKD FKKAVGACRIFYHPETTQLMIL SASEATVKRVNLSDMHLRSIR TKLMLMSRNEEATKHLECTKQ LAAAFHEEFVVREDLMGLAIGT HGSNIQQARKVPGVTAIELDED TGTFRIYGESADAVKKARGFLE FVEDFIQVPRNLVGKVIGKNGK VIQEIVDKSGVVRVRIEGDNEN KLPRDGMVPFVFGTKESIGN VQVLLLEYHIAYLKEVEQLRME RLQIDEQLRQIGMGFRPSSTRGP EKEKGYATDESTVSSVQGSRSY SGRGRGRGPNYTSYGYNSEL SNPSETESERKDELSDWSLAGE DDRDSRHQRDSRRRPGGRGRS VSGGRGRGGPRGGKSSISSVQY RSNIHNCSTLKRIFLASDMNIVL KDPDSNPYSLLDNTESDQTADT DASESHHSTNRRRRSRRRRTDE DAVLMDGMTESDTASVNENGL DDSEKKPQRRNRSRRRRFRGQ AE\DRQPAIDFIYKEVEKVSL WQAKDVIEEHGPSEKAINGPTS ASGDDISKLQRTPGEEKINTLKE

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4346	34714	A	4387	1	1882	CGSNMADVTVEVRGSNGAFYK GFIKDVHEDSLTVVFENNWQPE RQVPFNEVRLPPPPDIKKEISEG DEVEVYSRANDQEPGWWLA KVRMMKGEFYVIEYAACDATY NEIVTFERLRPVNQNKTVKKNT FFKCTVDVPEDLREACANENA HKDFKKA VGACRIFYHPETTQL MILSASEATVKRVNLSMDHLR SIRTKLMLMSRNEEATKHLECT KQLAAAFHEEFVVREDLMGLA IGTHGSNIQQARKVPGVTAIEL DEDTGTFRIYGESADAVKKAR GFLEFVEDFIQVPRNLVGKVI KNGKVIQEI VDKSGVVRVRIEG DNENKLPRDGMVPFVFGTK ESIGNVQVLLEYHIAYLKEVEQ LRMERLQIDEQLRQIGRSYSG RGRGRRGPNYTSGYGTNSELN PSETESERKDELSDSLAGEDN RDSRHQRDSRRRPGGGRSVSG GRGRGGPR\GGKSSISSVLKDPD SNPYSLLDNT\ESDQTADTDASE SHHSTNRRRR/SIRRRRTD\EDA VLMNGMTESDTASVNENGLVT VADYISRAESQSRQRNLPRETL AKNKKEMAKDVIEEHGPSEKAI NGPTSASGDDISKLRQTPGEEKI NTLKEENTQEAAVLNGVS
4347	34715	A	4388	2	421	PRVRDSDTEDDSEAEHFESFIHP TAMMFTSTINLLQTLCLSAGVH AEIMQSEATKTLCGLLAKSSPNR LVYREQHRSWCTLGFVQSIALT LQVCGALSSLQWITLLMKVVE GHAPFTATSLQRQILAVHLLQA VLPSWDK
4348	34716	A	4389	269	417	DLNCKVGSCFEVYSS*KQGIN*I KLGDSKT*P*LSGPTSENLNSS LAE
4349	34717	A	4390	1	516	
4350	34718	C	4391	1	1527	

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4351	34719	A	4392	200	1267	TFSKASRGGNPHSMTKAPSDFR KARQTGIPGCSQLGSRYSLPE QSALRLVCIQKLQESSTTCEDFF CPLCGRAWAVSTPLTDSPPSGH QPAVK*LGLVPFSDTHHPLPFQ VLSTDDTSSSSSCSSSCSASSSSP /SLLLLLLFLLLLLLLMLLLKL FLLLLLFLL/RPPASPLLPPALS PPL/HCSSSPSAPPASPPAPPPPP APPPSPPPAPPPSAPSSPAPLPPA PASPPFSCSSSSSCSSSCSSSFSSC SSLSSSAQAEGSLRAPRESSPSL DPSAPQVRVKVPPQAGSGHRA GGALENRPGRKKPWLHFRPGL RSRLPARSLRSRPAPTRWRLRSS GRFTGAATATATART
4352	34720	A	4393	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAKSQGCSRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIHCKDTPPSEGN MHLLSGPLSPSESFLRESFFTQV NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCVGQYLEVR LYALSDAEDGRG/TL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQEQGRSYKEVCTPVIERLRFL SNELRPVGNLDSIIEFKLLSSL PRWRRIAQKIIERRRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIPQARFLLMMLSLT LQHSANNLDLLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGGPPGLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAAQPSAEDS DTEDDSASPRLVYREQHRWS CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSQTVP

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4353	34721	A	4394	266	1110	WARGGCARNALASGNAIQGGK CNPGLFPPSPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQLCPE/HTSCPVLKDFCKSVI TDVACSSLISTLLVFWGGLLHT HKEASESWREAKSTSYVAAAR ENEEDAKAEPPTPGIKPSDLVRL IHYQENSMGETAPMIQIISHWV PPTTHGIYGSTIQDEIRVGVSYP GHTDARGFQLLLVSGDFSIPYW SLSSAYTSVNSSFVESLQSNLLK GILLPATIMTDPRTTGHQ
4354	34722	A	4395	1	734	MVQLSGKRILNSPYLELRCHQN MDHLGWVIKSLNRSEVSWVP GLEFPWGPKEPREVIAGPLLRN NGQSLESSSLEGSHVGVYFSAH WCPPCRSLTRVLVESYRKIKEA GQNFVEIIFVSADRSEESFKQYFS EMPWLAVPYTDEARRSRLNRL YGIQAHFLTANAEDFDTTVQV NKIILITYRQENSLSSLKTGET EAQGRQLQGSPSNVRGHPDRH AIPLSVNRWNPSKSSPSPAVWS
4355	34723	A	4396	195	1071	LHEFDSSRDLTSGLGARTHRR LGGPSDAPRGLPAPPAPPVRPG /PRSPGPSAGTAR/DAPRPSVQM RAQRPARGSTKDLIETCCAAGQ QWAIIDNDECLEIPESGTEDNVC RTAQRHCCVSYLQEKSCMAGV LGAKEGETCGAEDNDSCGISLY KASLTTCGLQGRCLNPQQASMG LFSYDVQSSKKINRSIQEKLGG HGVCAATPGGGMRNCGRLRRS GQRRGGTDRCEAVLTGLFTRA LIREQMGDPHPLDHTGQLAKPL EVEKTPARWKYLDTNKEKEEP ELRTQCPSLYED
4356	34724	A	4397	1	520	MMGEKAEPDTEKKKPKAKK ADAGGKRNCRYRSAMYSRKT TSRKKYSAASKVEKKKKFLA TVTKPVGVDKNSGTQVVKLHK MPRYPTEDVPLKLLSHG/KKK PFSQHR/RRVFLKQLV/SGTGP LVLNQVPLRRTHQKFVIATSTKI GSSNVKIAKRLTGAYFKKVWK PKHQE
4357	34725	C	4398	67	243	

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4358	34726	A	4399	1	333	QRSCIENILRAC/VGLPPQNIHML LEHKM\DAKRVGPVAATYPML NKKGPVPAATNGCTGDANGHL QEPPMPTT*GPGHTVSRLFLPA APHDPTLKAPTNNSAATQPSKN KKK
4359	34727	A	4400	587	1013	GAASAGRGPGRAPGLWGRGP AAAGASLVPTDHSVHLSYNHLG NNDGENLSAP/SQFRSKEVSKS NVVDD/MVQSNPVLYTPGEED HATRCWPHPSAGPSAADRAVP ARPAGAPATEPHAPGTQNGAP GPSLKRVGVPVAATYPI
4360	34728	A	4401	2	334	
4361	34729	B	4402	257	975	
4362	34730	A	4403	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKKQRLRLARAEKK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQLV\CRKMGPV YCIK GKARLGRLVHRKTCTTV AFTQVN
4363	34731	C	4404	62	217	
4364	34732	A	4405	2	69	
4365	34733	A	4406	1	951	GTRPKMPKGKKAKGKKVAPAP AVVKKQEGFRKKW*IPWFEKR PKNFGIGQDIQPQKRPPPLL*K WPRQYQACSGQRAILYKRLLKV PPAMKPVSPRALD\RQTATQLA *AVAHKVQTRQKQEKKQRLA LARADEEGCLAKGDVPNERDP PVPSSQEFNPVSPPLVKEQEKLK LVVNWHTD\DPHPSLVCLPC/ LCPAPVS*KMGGPFTCHIQGKRA RLWDRLLVPQERPCTTCPPFTQV N\SEDKVRLAKAGLEAIQGPY N*PDTMEIRPSLGVGNVLG\PKS VAR\AKARNRHKAKETATHTG LNVTLLSFLYYKNN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4366	34734	A	4407	1	1392	MPDVSEEQKESVCTGSMREE ESSRKGVRTAGAKSSSSDRVP RLNQEEVESLNRPTGAEIVAIIN SLPTKKSPAPDGFTAIFYQRIRI QQPIRIQQPIKKLIQHDKVGFI GMQGWFNICKSINVQHINRTK EKNHMIISIDAEKPFDKIQQCFM LKTNLKLGIDGTYLKIIRAIYHK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLARAIQ KEIKGIQLGKEEVKLSLFADDM IYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKHLGIQ LTRDVKDLFKENYKPLLNEIKE DTKKWKNIPCSWAGRISIMKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFIRNQKRAHIAKSILS QKNKAGGITLPDFKLYYKATV TKTAWYWYQNRDIDQCTRTQP SEITPHIYNLIF
4367	34735	A	4408	1	1947	MALRRLSHDVSGALLANGES TGNSGGSSGSSPSGGATSGSSQ TSISGDVVEACCSVLMSVCADP VYKVYVAAL/QCMLLVTLDP SHFTRMRRRLM/AYADEVEIAE AIQLGVEDTLDGQQDSF/CRHL FPTTIWKPQRTVP/LECTIHLEKT GKGLCATKLSASSEDISERLASI SVGPSSSTTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLM FPALSTPSSSTPSVPAGTATDVS KHRLQGFIPCRIPSPQTQRKF SLQFHRNCPENKDSKLSPVFT QSRPLPSSNIHRPKSRPTPGNTS KQGDPSKNSMTLDLNSSSKCD DSFGCSSNSS/NCCYT/SDETVFT PVEEKCRLDVNTLNSSIEDLLE ASMPSSDTTVTFKSEVAVLSPE KAENDDTYKDDVNHNNQCKE KMEAEAEALAIAMAMSASQD ALPIVPQLQVENGEDIIIIQQDM TFFRHIIPPIQWIYKKESANLLID STGQRLRIADFGAAARLASKGT GAGEFQGGQLGTIAFMAPEVLR GQQYGRSCDVWSVGCAIHEMA CAKPPWNAEKHSNHLALIFKKL LDFANTACDGDKESEVEDVET DSGNSPEDLRKEIMIGLQYQAEI PPYLGEYDGNKDSQPKKMT GVQNAKEVLST

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4368	34736	A	4409	1	4485	
4369	34737	A	4410	2	927	IDHMIGHKASLNKFKKIEHSSTL SGHNGIKLEINSKRDLQNHANT RK\LNNLLLNEHWVKNEIKMEI LKFFELNDHNDTTYQNLWDTA KATF\LLRGKFTALNAYIKKTER AQTDILRSHVKELEKQEQTCPK PSRRKEITKIREELNEMETNKK KIQKINETKSRRFEQINKIDRSLA RLAKKRREKIQITSIRNKTGDTT TDTTEIQKIIQGYEHLIAHKL NLEEMDKFLEKYNPPSLNQEEL DTLNRITITSNKIEMVIKKLPTKK KSPGPNGFTAIFYQTFK\EELVP ILSILVHKTEKEGTLP
4370	34738	A	4411	405	517	
4371	34739	A	4412	1	1197	MEISELNAKLRSQEKEKQNEIHK LQLEKLQHFQEEKNKEIAILRN TIRDLEQRLSVGKDSHLKRENE QLKISADLIKEKLKSHEQEYKN NIAKLVSSEMKIKEEGYKKEISK LYQDMQRKGRIKVTCEWTCSE RKTEGREPGPVREPTGRSQA NEGSKTLAEINTKGTQSPAERIN KIDRLLARLTNKRREKVQISSIR NKTGDIRTDTTEKQKFMQGYH EHLIMHKLENLKEMDKFLEIY SPPRLKREDIETLSRPITISDIEM KNLKIPPKLPPELINKFSKVSRYK INVHKLVALLYANSQDTDNQIK NSTHFTIVAKKIYLGIIYLTCKDM KDLHKENSK/PLLKEIIDDTIKW KHIPCSWMSTTNIVKMTILPKTI YKFNAIIKIPPSFFAERKKQS
4372	34740	A	4413	1	190	MIQRKRASIGAPCAWVRKKEE EEEEEEEEEEEEEEEEEEEEK KKKKKKKKERTTWLWGNPLT
4373	34741	A	4414	303	429	
4374	34742	A	4415	123	252	
4375	34743	A	4416	1	156	
4376	34744	A	4417	3	351	EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEKEEEEEEEEEEEEEEE LGRLHGGSGKVRGLGFTENQQ GSTNRQHQREDNRKSKQKKIN NTKPEATESLIVNGITITAPA
4377	34745	A	4418	1	192	
4378	34746	A	4419	3	259	
4379	34747	A	4420	1	279	
4380	34748	B	4421	1	708	
4381	34749	A	4422	3	269	

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4382	34750	A	4423	1	322	MAGKQGRSEGASSWRLSSVLQ LNSQYFLQGAQQCTFLAATAW KKRKEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE\KKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKENPFSCF
4383	34751	B	4424	327	674	
4384	34752	A	4425	494	960	TRFYDHALHLIHRKGSTTVRSP PPLYFIGESKASALLAISLRWSG RSQPRSSVNQIRKAWGFRPRKG TEE/DERSGCPSDALESDDPMA YIHFTAEGEVTFKSILFVPTSAP RGLFDEYGSKKSDYIKLYVRRV FITDDFHDMMPKYLNFBVKGVV
4385	34753	A	4426	1	2539	VGGPRGWRCEDPNPGVGGGGG SCDRRGLETHRPHAMRALWVL GLCCVLLTFGSVRADDEVVD GTVEEDLGKSREGSRTDDEVV QREEEAIQLDGLNASQIREI.RE KSEKFAFQAEVNRMMKLIINSL YKNKEIFLRELISNASDALDKIR LISLTDENALSGNEELTVKIKCD KEKNLLHVTDGTGVMTREELV KNLGTIAKSGTSEFLNKMTEAQ EDGQSTSELIGQFGVGFYSAFL VADKVIVTSKHNNDTQHIWES DSNEFSVIADPRGNTLGRGTTIT LVLKEEASDYLELDTIKNLVKK YSQFINFPIYVWSSKTETVEEPM EEEEAAKEEKEESDDEAAVEEE EEEKKPKTKKVEKTVWDWEL MNDIKPIWQRPSKEVEEDEYKA FYKSFSKESDDPMAYIHFTAEG EVTFK\SILFVPTSAPRG\LFDA DY GSKK\SDYIKLYVRR\VFITD\DF HDMMPKYLNFBVKGVVDSDDL PLNVSRETLLQHKLLKVIRKKL VP*NRWDMIKKI/SLDDKYNDT FW\KEFGYQHSSLVVEGPI.RIR TRLAKLLR\FQSSHPTD\ITSLD QYVERMKEKQDKIYFMAGSSK KEAESSPFVERLLKKGYEVIYL TEPVDEYCIQALPEFDGKRIFQN VAKEGVKFDESEKTKESREAVE KEFEPLLNWMKDKALKDKIEK AVVSQRLTESPCALVASQYGW



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4386	34754	A	4427	2	622	PARAALGILTSHQSGFLKTSTSK ITSTAWKN\KDITMQSTKQYAC LHDLTNKGIGEEIDNEHPWTKP VSENFT\SPYVWMLDAEDLA DIEDTVEWRHRNVESLCVMET ASNFSCS\TSGCFSKDIVGLRTS\ ACWQQHCASPAFAYCG\HSFCC TGTA LR TMSSLPESAMW*KKP ARTRLPRGKDLIYFGSEKSDQE TGTL LLPVSS
4387	34755	A	4428	2	1421	QHCSQKDTAELLRGLSLWNHA EERQKFFKYSVDEKSDKEAEVS EHSTGITHLPPEVMLSIFSYLNP QELCRCSQVSMKWSQLTKTGS LWKHLYPVHWARGDWYSGPA TEL\DTPEPDDEWVKNR\KDESR AFHEWDEDADIDEESEAEESI AISIAQMEKRLLHGLIH\NVLPY VGTSVKTLVLAYSSAVSSKMV RQILELCPNLEHLDLTQTDISDS AFDSWSWLGCCQSLRHLDLSG CEKITDVALEKISRALGNSGHL HQSGLKTSTSKITSTAWKNKD ITMQSTKQYACLHDLTNKGIGE EIDNEHPWTKPVSENFTSPYV WMLDAEDLADIEDTVEWRHR NVESLCVMETASNFSCSTSGCF NHRPWSQNEYEQNLNYAKQLKE RLEAFTRDFLPHMKEEEEVFQP MLMEYFTYEELKDIIKKKVIAQ HCSQKDTAELLRGLSLWNHAE ERQKFFKYSVDEKSDKEAEVS
4388	34756	B	4429	70	348	
4389	34757	A	4430	2	371	
4390	34758	A	4431	1	907	MGHRINIVCKIDAPCARQTRTF HPVVKTVEDCGRYPSVIEFGKY EIQTWYSSPYPQEYARNLAKEG KMGEREMSFVQQQLQPMGRCS LFRELSSCTYLLNTQPP/AVSIH FLAVWILLVDGNMSKIYCQNL CLLAKLFLDHKTLYYDVEPFLF YVLTKNDEKGCHLVGYFSKWT VLQGGWQVQGIAHFSRALTLYLI CFSFPQEKLCQKYNVSCIMIM PQHQRQGFGRFLIDFISFRLTIG ASFTQLRKQSMSNSTEIPLLGD NGKSSPTFWQSLTSSPNAHFS LEAQLSILGHLFQSP

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4391	34759	A	4432	1	3468	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHASKSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNN
4392	34760	A	4433	3	1900	FNKCMTLKFRLKNFSRINKIDTP LARLIKKKREKNRIDTIKNDKG DITSNPTEIQSTIREYYKHLYTN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPITGSEIMAIINSLPT KKSPGPDGFTAKFYQRYKEELV PFLCLKFQSIEKEGILPNSFYEAS IILIPKPGRDTTKNENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNIRKSINV IQHISRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLGIKYLG QLTRDVKDLFKERS/YEPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTEFF TELEKTTLKFIWNQKRALIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGM GKDYSKTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWVKDM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNN
4393	34761	A	4434	2	1932	

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4394	34762	A	4435	1	2571	MKAEIKMFFETNENKDTTYQN LWNTFKAMCRGKFIALNAHKR KQERSNTDTLTSQKELKKQEQ THSKPSRRQEITKIRAEMKEIET QKTLQKIKESRTWFFEKINKIDR LLARLTKKKREKNQIDA IKNDK GDITTDPTIEIQT TIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNR PITGSEIEAIINSLP T/KKCPGPDGFTA EFYRRKRGVI LPNSFYEASIIIPKPGTDTTKKE NFRPISLMNIDVKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINIIQHINRAKDKNH MIISIDAEKAFDKIQQCFMLKTL NKL GIDGTYLKIIRAIYDKPTAN IILNGQKLEVFPLKTGTRQGCPL SPLLFNIVLEVLARAIRQEKEIK GIQLGNEEVKLSLFADDMIVYL ENPIISAPNLLKLINNFSKGSAY KIKVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAILIKLPMTFFTELEKST LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNGTEPSEIM PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLHVRPKTI KTLENLGNTIQDIGMGKDFMSK

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4395	34763	A	4436	1	1965	MTLESEQTFVYAVTATQTGAK EGTRMSKSNVAGQQGDSGEKA LQKTYQKILREKESALEAKYQA MERAATFEHNRDKVKRQFKIF RETKENEIQDLLRAKRELESKL QRLQAQGIQVDFPGESDSDNC TDVTAAGTQCEYWTGGALGSE PSIGSMIQLQQSFRGPEFAHSSID VEGPFANVNRDDWDIAVASLL QVTPLFSHSLWSNTVRCYLIYT DETQPEMDLFLKDYSPLKRM CETMGYFFHAVYFPIDVENQYL TVRKWEIEKSSLVILFIHLTLPRI KYLGIQLTRDVKDLFKENYKPL LNEIKEDTNKWKNILCSWTGR NNVMKMATLPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR AHIAKTILSEKNKAGGIMLPDF KLYFKATVTKAAWYWCQNRD IDQWNRTEASEITPHIYNHLIFD KPDKNKKWGKDSL FNKWCWE NWLAI CRKLKLPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLG NAIQDIGMGKDFMTKTPKAMA TKAKIDKWDLIKLSFCMAKET PIGVNRQLTEWEKIFAIYPSDKG LISRIYKELKQTYKKKTNNPIEK LAKEMNRHLSKEDIYAANRHK KKCSSSLVIREMQIKTT/MRYHL TPVRMAIIKSGNNRCWRGCG
4396	34764	A	4437	300	476	PDLSLWLPLTFFPSQLW*I*QL CVLELLFSRSIFVAFSVFPEFES WPALLGWGSSPG

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4397	34765	A	4438	413	1689	QKLYKPERIKYLGILTRDVKD LFKENY/KLNEIKEDTNKRKNIP CSWVGRINILKMAILQKVIYRF NAPIELPITFFTKLEKTTLRFIW NKKRVHIAKSIPSKKNKAGGIM LPDFKLYYKATITKTAWYLYQ NRDIDQWNRTEALGITPHIYNH LIFDKPDKNKQRGKDSL FNKW CWENWL VICRKLKLD AFLT PY TKINSRWIKDLNIRPKTIK TLEE NLGNTIQGIGMGKDFMTKTPK AMATKAKIDKRDILKLSFCTA KETNIRVNRQPIEWEIFAIYRS DKGLISRIYKELKQIYKKKTNN SIKKWAKDMNRHFSKEDIYAA NRHEKKWSPSLVTREM QIKTIM RYHLTPVRIMTIKMSGNNRCW RGYGEIGMLLHCWWECKLVQ ALWKT VWRFLKDLELEIPFDPV IPLLGIYPKDYT
4398	34766	A	4439	3	2404	
4399	34767	A	4440	1	1572	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIQEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKVLEVLARAI SQEKEIKCTQLGKEEVKLSLFA DDMIVCLENPVVSDHNVLKLIS NFSKVS VYKINVQKSHAFLYTN NRQTESQIMSELPFTITTKRIKY LGIQLTRAVKDFFKEKYKPLL N EIKKDTNKWKNIPCSCIGRINIM KMAIVPKVIYGFNAIPIKLPRTF FTELEKTTLKFIWKKKGAKTILS IKNKAGGIMLPDFKLYYKATVT KIAWYWYQNR YINQRNRTETS EITSHIYNHL/IFDKPDKNKKWG KDSL FNKWCWENWL
4400	34768	B	4441	1	1558	

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4401	34769	A	4442	837	4329	TWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YTFF/LAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
4402	34770	A	4443	1	816	MRRDYPVKAFTSRKREQHVQK VPSKKSQRQVQRTERRFLETPD LLYQKEKDLLLLISSSKKQPRPGI ERHYMMTQGSIHQEDVAILK/V YTSNKRASKYIQQ/TLLEIKGKI/ AHPQIVGDFNTPTSTIDRTIRQQI SIEFYDTIKQWDLTDCRTGHPI TEYIFCSGAHLTFTKINHIQGP RILKRFRKRIEIECVLVKGCQA KNRKKEEDLQTYWMLNIYGP YRSGSYAAIHRQETICSGQLSQ ALRDRFAMNAKLLLSLAHLW VIKLDPM
4403	34771	A	4444	87	307	
4404	34772	A	4445	1	534	MEESRGAKPPPALLPGDATLPP GSLGSARHPPEP/RPVGP/PPHQ TCPGPSACSSRRPEPRSSPGSPA RAPPAPPPAAPAPRCEPPLWLL LRVPCPGRSGWSWMTT*I/SERP VQKRARSGPQRLPPCLPLSPP TAPDRATAVATPPVLGPMSSW SPRRAGGPTRPCTALQALSIPA
4405	34773	A	4446	164	660	YPSGRRLREPADVADAWDGME ESRGAKPPPALLPGDATLPPAP SGQLGTRPSPSSRPSPHQTC PGPSACSSRRPEPRSSPGSPARAPP APPPAAPAPRA/SPRRPLPAPRS ASVPAFSAPPSQWPEVGSPCA LRRAMPRGPGPPPEPRLVAEPG EDAAPTAGR
4406	34774	A	4447	1	417	

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4407	34775	A	4448	1	1802	MSYPADDYESEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIVEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPEAEAIAPQVGNDVFLI LYKELYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRSNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLLRLLHSL GDYYQAIKVLENIELNKKSMYS RVPECQVTYYYVGFAYLMMR RYQDAIRVFANILLYIQRTKSM FQRTTYKYEMINKQNEQMHAL LAIALTMYPMRIDESIHLQLREK YG\DKMLRMQKGDQPVEELF SYSCPFL\SPVVPNYDNVHPN YHKE\PFLQ\QLKGVF**SSSQ AQLS/TPIRSFLKLYT\TMP\VAK LAGFPGPSQSQEFARIPGFFVFKQ QDERTSVWTQRVFSAPGW*NF SQASEVDFY\DKDM\HIADTK V\ARRYG\DFIRQ\HKFEELNR TLKEGWGQRPWMIFHTHFREP GFECIIGQGSVFC

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4408	34776	A	4449	1	1722	MNIKAKILNKILANRIQQHIKKL IHHDHVSFIPRMQGWFNHHPIN VIHHINRTNDKNHMIISIDA EKA FDKIQHPFTLTKLNKLD DMTVY LENPIVSAQNLLKLISNFSK VSG YKINVQKSQAFLYTNNRQ TESQ IMSELPFTIASKRIKYLGI QLTRD VKDLFKENYKPLLKEIKED TNK WKNIPCSWVGRINVVKMA ILP KVIYRFNAIPIKLPMTFF TELEK TTLKFIWNQKRARIAKSI LSQK NKAGGITLPDFKLYYKAT VTKT AWYWYQNRDIDQWNRTE PSEI MPHIYNHLTFDKPDKNKQ WGK DSL FNKWCWENWLAICR KLLK DPFLTPYTKINSRWIKDL NVRP KTIKTLEENLGNTVQDIG MCKD FMTKTPKAMATKAKIDK WDLI KLKSFCTSKETHIRVNRQ PTEWE KMFAIYPSDEGLISRICKE /LFKQ IYKKKNHPIKKWAKDMNR HFS KEDIYVANKHMKKSLSSL VIRE MQIKTTMRHHLTPVRMT IIKKS GNNRFRWRCGETGMLLHC WW ECKLVQPL*KIVW*FLKD LESEI PSDSAIPLGGIHPKAYKS FY
4409	34777	A	4450	1050	1147	PGEWHGQGSRCWR*PLP QRC GHLLSCRWRTP
4410	34778	A	4451	1	614	MEELVDEGLVKALGVSNF SHF QIEKLLNKPLKYPVTNQNS L GTMQNRAGFPRDEDCLLL QVE CHPYLTQEKLQYCHSKGIT VT AYSPLGSPDRPWAKPEDPS LLE DPKIKEIAAKHKKTAAQV LIRF HIQRNVIVIPKSVTPARIV ENIQN TEHYKYCGLCVGP NLEKN LYP VDRM/WKNSCGQFVL*IS SHLE DYPFNAEY
4411	34779	A	4452	2	240	WMELESLSHFQIEKLLN/ KPGL KYKPVNTQVNSIQFKGSIL EEGI VNMGDDSSMHVSAPEDPP VGQ DVEAEDSDTDDPDV
4412	34780	A	4453	1	1019	
4413	34781	A	4454	1	2028	



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4414	34782	A	4455	3	1045	DFTSENFSAAWYLIENHSNTSF EQLKMAVTNLKRQANKKSEGS LAYVKGGLSTFLEAQDALSAIH QKLEADGTEKVEGSMTQKLEN VLNRRASNTADTLFQ/EKVLGRK DKADSTARNALNVLQRFKFLFN LPLNIERNIQKGDYDVVINDYE K\AKSLFG\KTEVQVF\KKYYAE V\EP RVEALRELLADKLLLETPST LHDQKRYIRYLSDLHASGDPA WQCIGAQHKWILQLMHSCKEG YVKDLKGKDFSSNVFQFSGSAL RRVPDTPVRVLDSQFSRSALRSV PDTVQVLDSQFSGSALRRVPDT VRVLDDGQFSRSALRSVPDTPRV LDKCHCSPAKVVMNAVITFTG
4415	34783	A	4456	1	440	MQRNLARAFSPGIKKIKMMCL GNSEKDWPFRGVGEDAGLLA ARECGALLVIRHLINAVRAIVP NKSNNIILVLQHFDCVDK\TV QAFMEGSASEVLKEWTVTGKK KLLQGEELARLPFITGGSGSC YSSSTLAVEEECRVLA
4416	34784	A	4457	1	276	MEDEMEGLTEAGFRRWVTINS AELKEHVLTCCKEAKNLDKRL EELLSRITSLEDRDISDQME/RELC EAYTSINSQINQAEERISEFEDI LAEI
4417	34785	A	4458	3	361	EMVHRKKKAVHRTATADDDKK LQFSLKKLEVNNVSGIEEVNMF TNQGTVIHFNAEMPANSFTITG HAETKQLMEMLPSILNQLGAH CLTSLRRLAEALPKQSVNGKAP LATGEDDDEVPA
4418	34786	A	4459	1	475	
4419	34787	A	4460	57	820	EDGSGGGKFPEGARQGGTGQR RRRKAMRRTGAPAQADSRGRG RARGGCPGGEATLSQPPRGGT RGQEPQMKETIMNQEKTTRHTC RAQ\VRIGGKGTARRKKKV VII RGAAS/ADDDKKLQF\SLKK\LG V NNISGIEEVNM\FTN\QGTSGST FNNP*KFQGISWPANTFHHLQG HAEDKGS*QEMLAQHLKPSLG ADSLTSLRRLAEALPKQSVDDGK APLATGEDDDDEV PDL\VENF* *RLPRNEANLNLSQLLKIKP
4420	34788	A	4461	1	1527	

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4421	34789	A	4462	8	327	LIWQLTFTKTIKS/CEEYGKIVST KAILDKNTNQCKGMCKGIRTL KSCLCYLINGSSIVEVQKRLAY AGTLEPSLVHQVYSELSYYKLP GTQVVRIIAEVLRMQDSSE
4422	34790	A	4463	2	573	WMEGREKWRGRRKDGRKEGR KEGRKERRREREKGRERK/GKE RKGKERKGRKGRKGRER KGTEGKGTEGKGRKGRKGRK GKERKGRKGRKGRKGRKGRK KEQKGRKGRKGRKGRKGRKGRK ERKGRKGRKGRKGRKGRKGRK GKGRERKGRKGRKGRKGRKGRK KEGRKEGKKFSNNGMVEEMQ
4423	34791	B	4464	1	1344	
4424	34792	A	4465	3	373	
4425	34793	A	4466	1	3864	MQWEEAEKDPSGSCVFQRPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN
4426	34794	A	4467	3	415	
4427	34795	A	4468	396	676	LCFPYAERPDLQFLC*DLCARSP YLLQAQKYLQEF*AIPHLDDQQT EPPDPSVSFYLLDCTLNCTAQH KTC*KKSIKL*EQNQQLSSIPY SHT
4428	34796	A	4469	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFLSLRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVA AGLVSEAVKIIQGLTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGVLRRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
4429	34797	A	4470	918	1939	

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4430	34798	A	4471	3	2693	PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLLFEEGISPEV WATEGQYGQA KNAHFVQVKL KDSTSPYQRQYPLRPEAQQRL QKIVKDLKAQGLVKPYSSPCNT PILGVQKPKRQWRLVQDLRIIN EAVFPLYPAIPSPYTLLSQIPEEA EWFTVLDLKD AFFCIPVHPDSQ FLFAFEDPSNPTSQLTWTVLPQ GFRDSPHLFGQALAQDLSQFSY LDTPVLQCMDLLLAARSETLC HQATQALLNFLTTCGYKVSKP KAQLCSQQVKCLGLKLSKVTR ALSEERIQPILAYPYPKTLKQLR GFLGITGFCRIWIPRYGKIARPL YTLIKETQKANTHLVRWTPEAE AAFHALKKALMQAPVLSLLTG QDFSSYVTKNKQTKKKK\T*IA LRVLALV*GTS LQPVAYLSKKT DVVAKGWPHCLWVMAAIAVLI SKAVKMIQ*RD LTVWTS HDVN GILTAKGDLWLSDNHLLKYQA LLEGPMLRLCTCAALNLDFTL PHNEEKIEHNCQQVIAQTYATR GDHLEVPLTDPNPNLYTDGRSF VEKGLQKVG YAVVSDNGILES NPLTPGTSAQLAELIALTWALE LGEGKRVNIYTDSKYAYLV LH AHAVIWREREFLTSEGTPIKHQ
4431	34799	C	4472	11	1639	
4432	34800	A	4473	95	2539	
4433	34801	A	4474	345	768	PRGARSTRCLPVERR\CDGLQD CGDGSDEAGCPDLACGRRLGSF YGSFASPD LFGAARGPSDIHCT WLVD TQDSRRVLLQLELRLGY DDYVQVYEG LGERGDRLLQTL SYRSNHRPVSLEAAQGR LTV A YHARARSHPLMNE
4434	34802	A	4475	47	563	RLRFAVFTGAFHALSFLLSFVV LCCTYLKGLKVARFHCKRIDV/ MHHADARAAGGPAPQCAGTLS \EEQRRRQRATKKISTFIGTFL VCFAPYVITRLVELFSTVPIGSH WGVLSKCLAYS KAASDPFVYS LLRHQYRKSCKEILNRLHRRSI HSSGLTGDSHSQNILPVSE

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4435	34803	A	4476	1	332	ERGRQEMSAKLRPPAEPPCVPA RISP*RPS*RQ*MERRCPPWRC'S PMPC/CFFREHALQVRCGPTSA DCGRDPLFSPHPKPLPHPVP'DIG WVATAGAQRSSSPVPSSLFVW
4436	34804	A	4477	297	943	TGSWGGGGADQLRPALT'I'ALM PPDNRFGENTPAAPANGHCAP EPDITLVQDHSELPIGAAATMA HEIGHSLGLSHDPDGCCVEAAA ESGGCVMAAAT/GVRGHPFPRV FS/SCSRRQLRAFFRKGGGACLS NAPD/TRTPGAAALCGNGFVEA GEECYCVS\GQECRDLCFAHN CSLRPGAQCAHGDCCVRCLVR/ CMEGSGSHQLPRLVPGGDSAEI LM
4437	34805	A	4478	1	836	MGPLTFRDVKIEFSLEEWQCLD TAPGNLYRDVMLENYRNL.VFL VMCSHFAQDVWPEHSIKDSFQ KVILRTYGKYGHENLQLRKDH KSVDACKVYKGGYNGLNQCLT TTDSKIFQCDKYVKVFHK'FPNV NRNKIRHTGKKPFKCKNRGKSF CMLSQLTQHKKIHTREYSYKCE ECGKAFNWSSTLT'KHKIIITGE KPYKCEECGKAFNRSSNLTKH KIIHTGEKPYKCEECG\KAFNRS STLTKHKRIHTEEKPYKCEECG KAFNQFSILNKHKRIHMGR
4438	34806	A	4479	1	588	MLGKVQQQEQTIAKDLVVTKY KMCGGT/DIANRVLRS'VEASS S\GGQDYILKEGDLVKIDLGVH VDGFIANVTHTFVVDVAQGTQ VTGRKGDVIKAAQLC'VEAALC LVKPGNQNIQVREAWSKVALS FNCMPIEGMLSHQLKQHVIDGE KNIIQNPTDQQKKDHEKAEFEV HEVYAADVLVSSGEGKAKDAG
4439	34807	A	4480	85	561	LSHCLPLQTTEVGGFGNLLGY WIACSIGCVLSTGMLSHQLKQH VIDGEKTIIQNPTDQQKKDHEK AEFEVHEVYAVDVLVSSGEGK VRRVPELAKRGD*ECSPDQMLL KLLFQAKDAGQRTTIYKRDPSK QYGLKMKTSRAFFSEVERRFD AMPFTLRY

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4440	34808	A	4481	1	1408	GTSAPQPARSQLLALACLPAPL LARAFAARPLLEDGRGDSHSLW LGRETEAAAAAQKRGCSGGSR KMSGEDQQEQTIVD/DSL VVT KYKMGGDIANRVLRLSLVEASSS GVS VLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSIS\VNNC VCHFSP/L*KSDQDYILKEGDLV KIDLG VHVVDGFIANVAHTFVV DVAQGTQVTGRK\ADV IKA AH L\CAEAA\RLRVKPGNQNTQVT EAWNKVAHSFNCTPI\EGMLSH SLKQHVIDGEKP*FQNPTDKQK\ RAHEKADFEVH\DVYAVEGLV KPQERARPKDAGQRTTIYKRDP SKQYGLKMKTSRAFFSEVERRF DAMPFTLRAFEDKKARMGV\ VECAKHEL/VWQPFNVLYSGRE GDFVCPVLNFTVL\LMPNGPML ITSGPFEPDLYKSQMEVQDAEL KALLQSSASRKTQKKKKKKAS KTAENATSGETLEENEAGD
4441	34809	A	4482	3	190	
4442	34810	B	4483	1	588	
4443	34811	A	4484	1	1312	MSSKGSVVLAYSGGLDTSCILV WLKEQGYDVIA YLANIGQKED FEEARKKALKLGAKKV FIEDVS REFVEEFIWPAIQSSALYEDRYL LGTFF\ARPCIARKQVE\AQREG AKYVSHGATGKGNDQVR FELS CYSLAP\QIKVIAPWRMPEFYNR FKGRNDLMEYAK\QHGIPVTP KNPWSM DENLMHISYEAGILE NPKNQAPPGLYTKTQDPAKAP NTPDILEIEF\KKGV PVEGGPTF KDG\TTHQTFL\ELFMYLNEVA GKHGVGPYLT SWENRFHWELK SRGILRRPQAG\TILYHAHL DIE AFTMGGDRAQIPNQGLGF EFVE LGVYRFSGTAPECELVGPCLRQ SPQERVEGKSAGVPSLKGP RCT SLGPEVPHCSLYNE\ELVKHGT CQGDYE\PN*LPPGFIQTSISLKA EGNYHRLPRAKVTAQIRPRVQ
4444	34812	B	4485	47	482	

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4445	34813	A	4486	2328	3435	KTTTLEDNLGNTIQDIGPGKDF MMKIPKANATKIKIDEWDLIKL KSFCTAKATTKRVNKHDESLRS HYE*WGMLTDCVVMRDPNTK RSRGC GFV TYATVEEVDAATN ARPHKVDGKVVEPKRTVSRED SQRPGAHLTVKKIFVGGIKEDT GGFAFVTFDDHDSVDKIVIPKY HTVNGHNCEVRKALSKQEMAS ASSSQRGRSGRGGGFGGNENFG CGGNFSGHGGFGGSHDGGGYG GSGDGYNGFGNDGGYPGGPG YSGGSRGYGSGGQCGNQDSG YGRSGSYDSCNKGGRRGGFGSG SGSNFGGGGSYNDFGNYNQY SNFGPMKGGNF/GGRRSGP*GD GGQYFAKPPNHSGYGGSSSSSS
4446	34814	A	4487	1	762	
4447	34815	A	4488	3	333	
4448	34816	A	4489	1	1676	MRDPNTKRSRGFGV TYATVE EVDAAMNTTPHKVDGRVVEPK RAVSREDSQRPGAHLTVKKIFV GGIKEDTEEHHLRDYFEQYGKI EVIEIMTDRGSGKKRGFAFVTF DDHDSVDKIVIQKYHTVKGHN CEVRKALPKQEMASASSSQRG RRGSGNFGGRGDGGGNDNF GRGGNFSGRGGFGGSCGGGGY GSGDGYNGFGNDGSNF*G\GG SYNDSGNYNQSSKFEPMKGG NFGGRSSGPYGGGGQYFAKPQ NQAARCVAARWLFRTPEARLVF LQKFPPWAVVEVTVIVAAPA AATATTRDGGGCSRNCNIPEVF PELLGCPNRRGPPGGVREKQQQ TNSKSTRRQEITKTIAELKEIETR KTLQKINESRSWFYEKINKVDR LLDRLIKKREKSQIDAINKNDIG DIVTDPAEIQTTIKEYYKRLYAN ELENLEEMDKFLATYSLHSLNQ EEVESLNKPVTSSVEAVTNSL PTKKSPGPDGFTVLLEVLAPAIR QEKEIKHIPIGREEVKLSLFADD VIVYLENPIVSAQNLLKLISNFS

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4449	34817	A	4490	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEEER DESRKSETIFKDLFKVPVLKETI YYKFYGGPPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRRSIVK VSLLPVIGLKSFLKKPDQLR KLFVIGGLSFETTTDESLRSHFEQ WGTLTDCVVMRDPNTRSRGF GFVTYATVVEEVDAAMNARPH KVD\GRVV\EPKRAVSREDSQRP GAHI/TLVKKIFVGGIKEDTEEH HLRDDYFEEIILNSMEKIEV\IEI MT\DRGSGKKRGFAFVTFDDH DSVDKIVI\QKYHT/VGNHNC V\RKALSKQEDG*VLHPAQRG\ RSGSGKLLVVGRGRWFSVGMD NFG\RGGNFSWSV\AFGGT\RGA\ GGGYGWQWGMA\YNGFGNDG\ SNFGGGG\SYNDFG\NYNNQ\SS NFGPMKGGNFG\GRSSGPYG\G GGQYFAKPR\NQQGYGGSSS\
4450	34818	A	4491	134	612	TVLNSMSVILAISTLLKIITGELL QSFGDGLLWNLVIGIRIDGLSP KVRKVLQLRLRQIFN/GTFVK LIKVTVNMLRTVEPYIAWGYPN LKSVNELIYKHGYGKISKRIA LTDNVLIARSLGKYGIICMEDLI YEIYTVGKRFKEANNFLWPFKL
4451	34819	A	4492	1	1983	
4452	34820	A	4493	1	1527	
4453	34821	B	4494	1	2211	
4454	34822	A	4495	1	2478	
4455	34823	A	4496	2	1544	
4456	34824	B	4497	1	2151	
4457	34825	A	4498	1	744	
4458	34826	B	4499	1	2172	

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4459	34827	A	4500	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAIYLGV LSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQVPVNETIIVLPSNVIN FSQAEKPEPTNQGD SLKKHLH AEIKVIGVNLIQNV LERG WGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANS LDFPPASLL CLICQEQGVNGESCSPVGM YH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPR TK DKNHMIISIDA EKA FDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAI RQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPM TFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLT PYTKINSRWIKDL NIRPKTIKLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLKS FCTGKETTIRVNRQPT
4460	34828	B	4501	1	1785	
4461	34829	A	4502	1	1415	
4462	34830	B	4503	1	3262	
4463	34831	A	4504	1	278	



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4464	34832	A	4505	3	2528	ENKDTTYQNLWDAFKA\VCRG KFIALNAHKRKQEKSIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKIDTQKTLQKINESRS WFFERINKIDRPLARLIKKKREK NQTDTIKNCKGDITDPTTEIQT IREYYKHLANKLENLEEMDK FLNTYTLPRLNQEEVESLNRPI GAEIVAISSSLPT/K/KSPGPDGFT AEFYQRYKEE/LEKEGILPNSFY EASIIIPKPRDATKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRTKDKNHMIIIDAE KAFDKIQQRFLKTLNKLIGDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNTQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKDDTNKWKNIPCS WVGRINIVKMAILPKLPMTFFT ELEK\TTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEIMPPIYNLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGL GKDFMSKTPKAMATKAKIDK
4465	34833	B	4506	1	5401	
4466	34834	A	4507	1	5271	MNIDAKILNKILPNQIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMIIILIDAEK SFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE VFTLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKQISNFSKISQYKINVQKSQA FLYTNNRQTESQIMSEIPFTIAL KRIKYLGIQLTRDVKDLFKENY
4467	34835	B	4508	924	3423	
4468	34836	A	4509	525	673	RDSWGTCPVSGAGKVDWPPSS *HHR*HQQWCCGMPHQLSTKE NISIKDHLTKEKRKGGAV*RII

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4469	34837	A	4510	25	1766	GTCQFAAMNVVFAVKQYISKM IEDSGPGMKVLLMDKETTIVS MVTYQSEILQKEVYLFERIDSQ NREIMKHLKAICFLRPTKENVD YIIQELRRPKYTIYFIYFSNVISK SDVEVIGLKLIEQEVVAEVQEF YGDYIAVNPHLFSNLGCCCQG RNWDPAQLSRTTQGLTALLLSL KKCPMIRYQLSSEAAKRLAECV KQVITKEYELFEFRRTVPPLLL ILDRLDDAITPLLNQWTYQAM VHELLGINNNRIDLSRVPGISKD LREVVLSAENDEFYANNMYLN FAEIGSNIKNLMEDFQKKPKPE QQKLESIGS\MKA\FVENYPQFK KMSGTVSKHVTVVGELSRLVS ERNLLEVSEVEQELACQNDHSS ALQNIKRLQNPKVTEFDAARL \VMLYALHYERHSSNSLPGLM MDLRNKGVSSEYRKLVS AVVE YGGKRVRGSDLFSPKDAVAITK QFLKGLKGVGNVYTQLQPFAL HETLDHLIKGRLKENLYPYLGP STLRDRPQDIIVFVIGGATYEEA LTVYNLNRTPGVRIVLGGTTV HNTKSFLÉEVLASGLHSRSKES
4470	34838	A	4511	1	1335	MAPVTMMGYRSGKMGLADV QLQVGPPGPWLHLVVIAPVPEC ITGIGIFSSWGSPDVGPLLYDIR AIMWGSLAPAENTWILGNNHR RFLAQLKPRVIMQDFSNVISKS DVKSLAEADEQEVVAEVQQVI TKEYELFEFRRTVPPLLLILDR CDDAITPLLNQWTYQAMVHEL LGINNNRIDLSRVPGISKDLREV \VSSAEIDEFYANNMYLNFAEIG SNIKNLMEDFQKKPKPEQQKL ESIADMKA\FVENYPQFKKMSG\ TVSK\HVTVVG\ELSRL\VSERN LAGRFSEVEARNWAC\QNDHS\ SALQNIKRLQNPKVTEFDAAR LVMLYALHYERHSSNSLPGL\ MMDLRN\KGVFWRKYSKARVL AVVEYGGKRVRGSDLFSPKDA VAITKQFLKGLKQEQIVNCVLA AANVYIKQLPLSIQPSASLNGCI SLEKKPLVSTQRN
4471	34839	A	4512	1	816	
4472	34840	A	4513	26	257	
4473	34841	A	4514	56	236	

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4474	34842	A	4515	170	373	HSPRGSTASF/CEVSETKNPIPD TPATREAEGLSRLAVYSTRDS PCVACSGSYTQAQGS LGRKFQ DP
4475	34843	A	4516	262	358	
4476	34844	A	4517	2298	2556	NHKNPRRKPRQYHSGHRHGQG LHD*NTKSNGTKSNGNKSQN* Q\WDLINLKSFCTAKETTIRVNR QPTWEKIFTIYPSDKGLISRI
4477	34845	A	4518	801	944	DQEPTNSRHILATQMGPSPITKQ SNPGV**KECGFSCSPRVWRYL VS
4478	34846	B	4519	85	660	
4479	34847	A	4520	693	827	
4480	34848	A	4521	272	339	
4481	34849	C	4522	532	2754	
4482	34850	B	4523	1	519	
4483	34851	B	4524	266	935	
4484	34852	A	4525	1	1584	
4485	34853	A	4526	1	723	GALPNGDRGRRKSRFALYKRP KANGVKPSTVHVISTPQASKAI SCKGQHSISYTLRNQTVVVEY THDKD TDMFQVGRSTESPIDFV VTD TISGSQNTDEAQITQSTISR FACRIVCDRNEPYTARIFAAGF DSSKNIFLGEKAAKWKNPDPGH MDGLTTNGVLVMHPRGGFTEE SQPGVWREISVCGDVYTLRETR SAQQRGKLG LQTGDMAENT/T VHALPSNCMVWRRSQTRQQIS
4486	34854	A	4527	1	335	
4487	34855	A	4528	328	871	DCGGGRARTAFAGAARAADN KKCAGARRALGRARGCSATAR PRRRRRRPRGLAPPRPARPPPG GMSYKPNLAAHMPAAALNAA GSVHSPSTSMATSSQYRQLSD YGPPSLGYTQGTGNSQVPQSKY AELLAIEELGKEIRPTYAGSKSS \MERL\KRGIIHARGLVRECLAE TERNARS
4488	34856	A	4529	1	653	MAGPAESSPQGAHPNSPFALQH HSSLTVKPLHRQNVIQHQVAG QENRRGHQAGSSTSPQPLEALK RPNLRAPFHSQSRRI LIPPAGNP TPGAAAPADPSTQRRDRWGCA LPMPRVAAGSAHHQQAGPTAA AQHRTPVALFSPPLSLVYGQQQ RKESETPTVPTPPARARGWTET GVEHVPAYNRTRAPEKCDI/SV PSPHSPDAETSHPRHISPCPG

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4489	34857	A	4530	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARA EKKAAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIK GKAR LGRLVHRKTCTTVAFT
4490	34858	A	4531	1	2073	MKPCAHSWNAELSRNIIRHSFN LVMVAASQVAVSLLGSYEILL LVSIELMFCFGLGYFFIPMQEW PNTYGERVFVDVSSVFKWNH KCLHKTEAERDYTEKRLKLCG HKPGNAVGGQKLEEARNRFFT RAPGGSAA LPTLRFPSTDFR LLASRTILTFETKNPSELAERLR SVCNGNSNAYARLLEYRLNAL RGLWNAQRQLALEEQHERESS GDEETLALLKRQGLLQQPEQAP FTSRMGLLLVFPLIQSQR TDPS LCNITAEVLLNCLRDCQPLSLT KEPADCLNGIETLLCSWLEETS DTGRHIPHKQKENAAAALVAL ACARGFVYCRNEELEPGWVAF GSGSLLHRPVSF DNKPHSLFQVI DQNTLQVCQVVPMPANHLPIG STMSTVHLSSDGTYFYWIWSPA SLNEKTPKGHSVFM DIFELVTL KGKKAKGKKVAPAPAVVKKQ EAKKVNSLFEKR\DIQPKRELT YFVKW/PRYVRLQQQRILYKQ LKVPPAINQFTQALNCQTVTQL LKLAKYRPETKQEKQRLLA QAEKKAAGKGGVPTKRPPALR AGVNTITTLVENKKAQLVVIAH DVDSIELVVFLPALCCKMGPY CIK GKARLGRLVHRKTCTTVA FTQVNLEDKGALAKLVEGIRTN DNDRYDEICCHWGGN LGPKS VACIAKLEKAKAKELATKLG
4491	34859	A	4532	1	2565	
4492	34860	A	4533	1	644	MPKGKKAKEKKVAPAPAVVK KQEAKKVVNPLFEKRPNFGT GQDIQPKRDLTHFVKWPCYIRL QQQRTILYKWLKVPPEINQFTQ APDSQTATLLLKLAH/KYRPET NQEKQRL LARAKKKAAGKG DIP\TKSPVLRAGVNTITTLVE NKKAQLVVIAHDVDPIKL VVFL PVLCHK/MGPVYCIK GKARLG HLVHRKTCTTVTFTQVNSEDK

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4493	34861	A	4534	1	931	KSIQKGLKMCLSSSLLPPSKMP KGKKAKGKKVAPAPAVVKKQ EAKKVVNPLFEKRP\KNFGIGQ DIQP\KRDFTRFVKWPRLSGC MR\KRAILYKAG*KLPPA\INQF HPGPWDPANKLLQLL*AWA\HK \YRP\ETKAKRKKQRL\LARA\E KKAAGKGDVPNERDPPV\LR\A GVNTVTHLWWRNKKAPAWVV IATRRWIPFELVVFLPALCREK WGSPYCIKKGKARLGR\LV\RR PCT\TVGFHTR*NSKDKRLLA* AGLEAIRTQFTIDQIRWRSGRH WG\GNVLGPKSVARIRQASKR QRLKELATKLG
4494	34862	A	4535	3	227	
4495	34863	A	4536	1	338	
4496	34864	A	4537	1	352	
4497	34865	A	4538	2	368	
4498	34866	A	4539	3	468	
4499	34867	A	4540	2	790	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PDVVSLLAQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELDLCSLPRDTTLVHYI DDIMLIGSSVQEVENKLDLLVK DKLLHLAPPTTKEEVQHMVGL FGFWRQHIFHLGVHLHQPIYRVI RKAASFEWGPEQEALQQVQ AAVGGKQSENNLGHQRSPGLW
4500	34868	B	4541	179	1219	
4501	34869	A	4542	1706	2517	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVA\I.T ITPSDPLAKFLLSVPTLRSAGL EVLVPGEGLPPEGNTRTIPLNW KLRLPPGHFGLLLTSLQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVI.P CPVIKINGKLQQPNPGGTNGS DPSGMKV

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4502	34870	A	4543	3	367	DLWPFTRVTVH/WGKANDQTF QGLLDTGSELTLPKGYPKRHCC PPVKVRVYGGQTDGSRMTV GYHKLNQVVTPIAAAVPDVVS LLEQINTTPAIKWVVHSSIPSSN GSGVYVIRLEQVLKAQ
4503	34871	A	4544	2	541	
4504	34872	B	4545	1	681	
4505	34873	A	4546	2	1091	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAAIAAI PDVVSLEQINTSPDTWYAAID LANALFSIPVHKGYSINSLALCH NVIWRELDLCSLPRDITLVHYI DDIMLIGSIKFLGVQWCGACRD IPSKDPADPMVLEVSADRDVA WSIWQALIDESQQRPLGFWSKS LPSSADNYSPFERQLLAYYWAL VETERSTMGHQVTMLPELPVM NWVLSDPSSHK/ANGLAGWSG TGKKHDWKIGDKEIWRGMW MDLSEWSK/D/VKIFVSHVSAH QRTVSAEEFNQVDRMTRSM DTTQPLYPTTPVIAQWAHE
4506	34874	A	4547	1	1236	
4507	34875	A	4548	1	1467	GEKGNDQTFRKLLDTGSELMLI PLRVVPIPTSLFNSPIWPVQKTD GSGRMRVDYHKLNQVMTPTA AAVPDVVSLEFEPINTFLGTWYA AIDLANALFSIPVCKAHQKQFA FSWQQQYTFVLPQRYINCLA LCHNLIQRDLDFLLPQGITLV HYIDSGPFIK*PEAASFEWGPEQ EKALQQVQAAVQAALSIGPYD PADPMVLEVSADGDVWVSL WQAPKGESQWRPLGFWSKALP SSTDNYSSSDVQLYTDSWAVA SSLAG*SGTWKKHDWKIGDKEI WGRGMWMDLSEWSKTGKIFV SHVNAHQLVTSAEEDFNQVD RMTRSDTTQPLSPATPVVAQ WAHEQSGHGGGRNEGYAWTQQ HGLPLTKADLTATAECPIQ QRPTLRPRYGTTSGDQPATC WQVDYIEPLPSWKRQRFLLTGI NTHSGYGFAYPPCNASAKTTIH GLIACLIHCHGIPHSIASLYRER GTHFTDKEVQQWAHAH

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4508	34876	A	4549	2	1602	NLSPILPQDLWPFRVTVHWGK GNDQTFQGLQDTGSELMIPGD PKRHCSPPVKVGSYGGQVINGV LAQVRLTVGTVGPRTHPVVIS VPECHIDILNSWQNP HIDS LTG RVKAIMVGKAKWKPFEP LPIK IVNQKQYRIPGGIAEISATIKDL KDAGVVIPITLPFNSPFWPVKKT DGSWRMKVVYCKLNQVVTPI AAVPDV/VVSLLEQINTSPGTW YAAIDLANAIFSIPVHKAHQKQ FAFSWQGHQNTFTVTILLHIH KVGHAQQHSIIKWKWYIHDGA RAGSEGTSKLNEEVPQMPMVT TSAALPSLPRPAPMASWGVLY DQLTEEEKTRA WFTDGSARYA GTTQKWTAALQPLSRTSLKG SGEGKSSQWAE LQAVHLVVHF SWKDKWPDVRLYIDSWAVAN GLAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI

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4509	34877	A	4550	1	1891	MLSSTQNAGGSYQVRVGRALDT QEWKWGEVSPRTLNV DGRAL VSVANTHGTDRPAYTLNPQSR DQRSGVITLGYKRPLEREDLFE LKESDSFCTACPIFEKQWRKEV LRNQERQKV KALNKLDEALCP GIILTQSTDSNANLFQKQPIRHT QTSGRWQIIIFCEHSSDFGWNG YGYAVALLVVVFLQTLILQQY QRFNMLTSAKVKTAVNGLIYK KLGWSGKVS WLILHDVGHGIM EGYIAWKGSDVRITWEKST EMRTRPAQKMALLSNVSRQK FSTGEIINLMSATHGLDSKPQSP LVCPFSNPNGRISPLARAGLAD HYRVTHLQILKLYAWEPSYKN KIIKIRDQELEFQKSARYLTVFS MLTLTCIPFLTKISLGRLEDFLN TEELLPQSIETNYTGDHAIGFTD ASFSDWKTGMPVLKESIRIRIEQ VLNQLSLFETVDYPGSVAYVSQ QAWIQNCILQENILFGSIMKKEF YEQVLEACALLPDLEQLPKGD QTEIGERAVNISGGQQHRVSLA RAVYSGADVLLDDPLSAIDV HVGKQLFEKVIGSLGLLKNRTII ILVTHNLTLQPQMNLI VVMKSG RIAQMGIYQELLCKTKNLTNFT KSSVNKKKVGEWEESGRGS
4510	34878	A	4551	2	542	LTSKVKTAVNGLIYKKVSLAT LCVYFLLDERIILTAPKVFTSMS LFNILRIPLFELPSVISA VVQTKI SLGRLEDFLNTEELLPQSIETNY TGDHAIGFTDASFSDWKTGMP VL/NRGSEAYVSQQA WIQNCIL QENILFGSIMKKEFYEQVLEAC ALLPDLEQLPKGDQTEIGERV
4511	34879	A	4552	1	667	IETNYTGDHAIGFTDASFSDWK TGMPVLKESSVAYVSQQA WIQ NCILQENILFGSIMKKEFYEQVL EACALLPDLEQLPKGDQTEIGE R/GKETA VNISGGQQHRVSLAR AVYSGADVLLDDPLSAIDVH VGKQLFEKVIGSLGLLKNRTSH SVCHYTLLAVPHLLEVQILTGN FIQSLGFNYHEYANNSNAYIVN LDLFPGFQTCVYKLLSPIRCLIC
4512	34880	A	4553	201	336	QQTPGKAVHAPFIADQSLT*EL VSVFPQFQLFPYRR*DSHSGKS
4513	34881	A	4554	3	515	



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4514	34882	A	4555	1	852	MPCTTSGLDKVPTSKKALTRY GYGSLTLD FSGSIIPCKMCLSPS TRIVRPSQPRGTEDPDETGDTEF VNSDESFLLEG TASPSPVAVSP PRPMLPSAFPPLSEDINPVLPEA TVLASPEVVA KQTHVDSPRKPL STFLFASRPVTKLKS RQTPGGE VDSVTCEEKTDGPWRKTVDYC KLNQVVTPIAALVPDMVSLLV QINTSSDTSYAAIDLA KAFFSIP VYKAHQKQFIFSWQAQQYTFT VLPQGYIISPALCHNLIRR/DLD HFLLPQDITLVHYIDDIRL
4515	34883	B	4556	288	327	
4516	34884	A	4557	51	598	LFGGCHTSGGLAVRVPRMPRG SRSRTSRMAPS\ASRAPLK*ELE PRQAQVAQPPAAAPPSAVGSS\ AAAPRQPG/LFMAQMATTAG VA\VGFC CGGHTLGHG\TGGLS VGGKLI A*ALRRP*HQFNQGSF RGTQAKHSKQPALPLLWRIKT SFREVVPPEPRVTIQGFCG GPFM RLLETVPDL
4517	34885	A	4558	1	10434	MTVIRSGIAYILHLKSYDVNIQT GSNACNQPTH PNGDCSHFCFPV PNFQRVCGCPYGMRLASNHLT CEGDP TNEPPT EQCGLFSFPCK NGRCVPNY YLCDGVDDCHDNS DEQLCGTLNNTCSSAFTCGHG ECIPAHWRCDKRND CVDGSDE HNCPTHAPASCLDTQYTCDNH QCISKNWVCDTDND CGDGSDE KNCILNCTASQFKASGDKCIG VTNRCDGVFDCSDNSDEAGCP TRPPGMCHSDEFQCQEDG
4518	34886	A	4559	24	849	ATGRCCCGLAPGFPLCWVLYP GGRGSA\CPEPHVLR TGSP LQRE QRTNGRTDLSSLLPNLNFDSPP RCKHKNQLAITLRKRIRKLATS LFSSTIFRISGTSVIISAPGAGLPL PALFPTRCQPKFSRSIDPTGKAV QTADIRLSARATLWLGG SIEESP VLCSTLRLLLRLRPPLTW TSPN RPTQPCTAQTQTNQSVGIAAPS AIRVIYPESVVLNAV IYLP GDPE VSGLPRAFKRRFSVEVRLDCGT FKLLL VYCTHPGDKKVNTCKT GALVAF
4519	34887	C	4560	192	449	
4520	34888	A	4561	1	786	
4521	34889	A	4562	3	14073	

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4522	34890	B	4563	58	1282	
4523	34891	B	4564	1	684	
4524	34892	A	4565	1	1356	MGRKYTLKWEFEEGFTEKKEL KKVTSEGYITPVEIYDYRQYCY ALQRPIATTQIDDVRDGHTRRL AKLEKQEQTTHSKASRRQEIIKIR AEPKEIETQKTLQKINESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDKGDITTNPTIEIQTIRE YYKHLKYANKLENLEEMDKFLH TYILPRLNQEEVESLNRPTGSEI EAIINSLPTKKSPGPDGFTADFY Q\MLEVLARAIMQEKEIKGIQL GKEEVKLSLFADYMIVYLENAI ISAQNLLKLI/SNFSKVSGYKINV QKSQAFLYINNRRQTESQIMSER PFTIASKRIKYLGIQLTRDVKNL FKENYKPLLNEIKEDTNKWKKI PCSWVGRINIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI WNQKRACITKSILSQKNKAGGI MLPEFKLY/YQGSSTQTAWYW
4525	34893	A	4566	1	1102	MANCDINRKDEKGGKEKKDRS KSKSLMDTLKRQLSAKQKPKG KAGKPSGSSADEDTFSSSSAPIV FKAVRAQRPIR/STSLRSHHCSP MPWPLRPTNSEETCIKME\PSPP LNGVRKDFHDLQSETACQEQ NSLKSSASQNGDLYLRLDEHVP VVIGLLPQDYIYTVPLDEGMC PLEGSSSYCLDSSSTMEVSVVPS QVGGRSFPEDESQADQNLVVA PEIFVDQSMNGLLTGTTGVMLQ SPRVGPHHVPPLSPLPPMQNN QIQRNFSGLTGTEAHMAESMLC HLNFDNFNSAPGVARVYVSQSS GPMVVTSLTEELKR\LAQGWL WPPLKSVRRCVLARRSLYTKQL NQEEGTELNLGSSCLLC
4526	34894	A	4567	364	661	PFHFTCFSCKVYFADPGSAARS VPGSPSAVCAQCILCTGHCAVC PGLGEHHSSGRTLMTKLHSLK KLKPCYLLC*SKN*KTQGGSPK S*NVNKYLVTLI
4527	34895	A	4568	53	470	CISIIILPGPSAKTLPVLSLSSPY TASFQPTFVRTFSHQTTYLSLGS VPVAQLKCSAGQQRGELLCCR GVWGSWISVSHFTEIATLPAAC LEDGE\DFNLGGILDSSSKYL*SIQ KTNTHRIVDGKVVSETNITDVL

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4528	34896	A	4569	1	1635	MGWTCKILFLVAAATGAHFLV QLVQSGAEVKKPGASVKVSK ASGYTFTYCYLHWREPVSFIG RCILLTLLLGDCWGEAWTQ GDVLQPSDRASFLAMGVNTTG QQVGDLSGDFPNSVGKACKCR EFHTLTPLAHTSSTTHETFPGMS HIALELSQGSSLLQCLEAQTQG QRQELTVSANEQPESRGHGCVL LCETQSEGKSVRAQAQTSKGS QKRLGGARTLCTGLSPGQRKQ ERSKIDTLTSQKLEKQEQTYS KASRRQEITKIRAELEIETQKT LQKINESRSWFFEKIYKIDRPLA RLIKKKREKNQIDAINGKGD TTDPTEIQTTLRQYYKHLAYANK LENLEGMDKFLDAYTLPRLNQ EEVESLNRPTGPEIAIN/STPT KKSPGPDRFTAIFYQRSVDLA RAIRQKKEIKCIQLGKEEVKLSL FADDMIVYLEIPIISAQNLLKLIS NFSKVSGYKISVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTKDVKDLFDNCKPLLN EIKEDTNKWKNIPCS
4529	34897	B	4570	1	429	
4530	34898	A	4571	1	897	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLNECWVKNMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYLNLIKDIY DKPTANIMLNGEKLLKAFTLRGT TRMNQGCPLPSLLFNI/VLEVL ARAIRQEKEIKGIQIGKEEVKVS LFADYVIVYFENPTDSSRKLEL IKEFSSFWIQD
4531	34899	A	4572	1	1461	
4532	34900	A	4573	49	365	
4533	34901	A	4574	45	534	VCHLEPGERCPSRGCRVGV QTEKMQTAGALFISPALIRCCT RGLIRPVSAFLNSPVNSSKQPS YSNFPLQVARREFQTSVVSRDI DTAAKFIGVAGSATVGVADSGA GIGAVFGSLIIVYARKLSLKQQL LFYAILGF\ALSEGMGLFCLMV AFLILFAM

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4534	34902	A	4575	98	624	DWYSRSHPKELWEGSKKKSIN HSACSLQAHGGPISTSLNPHSKP RGRVSPPPGKRQQECCRARPGRS PELAGPPPANVQETSQKNACAS RLSEPPGEGPIEPAAHQPHRGS SSGPCSRGGYRQPLFPGPAASG VPASGSV/RSRIPGAPQGVALAR RGPQGSPSPAPRFFPATERQS
4535	34903	B	4576	1	604	
4536	34904	A	4577	3	331	LAPAPSAAWRTGLKALTPTSST WMLCASEHHVSGSGVGDHLA GCRQEKTLPCQRYCVFCRRRR ARSLQAQCGFSLTPALELLPVPF LKLLCPGPPRRRRICRILPGAGL
4537	34905	A	4578	1	871	
4538	34906	A	4579	3	510	GPSPRVDDFVAAAAA VAPVV LYACPRHSPIPPWSIRGRRVVVT GFGPFGEHTVNANWIAVQELE KLGLGDSVDLHVYEIPVEYQTV QRLIPALWEKHSPQLVVHVGV SGMATTVTLEKCGHNKGKGL DNCRFCPGSQCCVEDGPESIDSI IDMDAVCKRVTTLGQCI
4539	34907	A	4580	1	285	MAPGALPALGEEEGPGASGLSA ELGHL SAGSRAFRETSVDSALD TPFPAGTFVRLEFKLRQTESGR RKDWKKPKCKVQPERRKQKCL TCVKLEC
4540	34908	B	4581	1	228	
4541	34909	A	4582	1	697	MGLERPVD RVMWLPGALWNS AVVSAPVGEEWALAGTGNQGL QDIQGMHCPEEGISQIHGRDHR NAKDSHTGVWCSTLGIISTIIIR PKCRFSIDRS DSDYLPTSSCRRD PGGAEP CQDRPRVEQLCSVLAN RSGPLAKCHWYESPVSYTQVC VSDLCQYGTGNRMLCTMLEAY VQLCALRCALPARVASQPGMQ LRVACPANSYYDSCGPPFPATC ASLNSSAPCTLQCTVSCFCLEGF ALEAGSSVPHACCGCHLQGRY I/APGPWPSATGMRAPCPTRRC VSLTSASMARATACCAPCWRP TSNSAPCAARCLPAWRASLGCS YVWRVQPTATMTVPVGHPSRPP VLASTPPRPAPSSAQ
4542	34910	B	4583	1	208	
4543	34911	A	4584	2	230	

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4544	34912	A	4585	106	669	GCGCVLLPGGVGAPGHSPEGP VPPRDARQLRTCGLAGTLHLST SCGHPTGAWRGALGSQWNGH NPVQDHLQEAQPWFLEFDRG* RCFWRMATSFPRYPTWDDY*R LPCCRCLPQCKKPAETTGCPLIS GEKTHGGVGDLLGEAPARLRQ WASQRQPATDLPA*ASRGRPA* GKDTHRACVAGEAAQDA
4545	34913	A	4586	2	597	TPKGGIRLGLAKLGCPTAWINP YGRGMPLAHSVLSGARVLVV DPDLRESLEEILPKLQAENIRCF YLSHTSPTPGVGALGAALDAAP SHPVPADLRAGITWRSPALFIYT SGTTGLPKPAILTHERVLQMSK MLALSGATADDVV\YTEVLPLY HVMGLVVGILGCLDLGTSLAS YGLRVYFILWSVLGPSRRTLCL
4546	34914	A	4587	9	573	EEEEERKKKKK\KKKEEEEGEEE GGGMGEKKKKKEEEEGEEEGE KEREKER\EKERKKKEERKEK ERERKKKRERKKEKERERKEG EGERERKSTECTSSSYI\IKKLVV KQPQAAPSGEIPEGIAVLGGDS SMPVIVPEDLPVGQDVEVEDSD INDPDSLILVSSQAGGGGVITAY CNLEHLGSSDPPT
4547	34915	A	4588	1	297	
4548	34916	A	4589	114	752	DGSAAPRATSDSFTYTVCVSEF PVDDFMELGRSIPDTQL/DAVIE SQKANQCAVLIYT/SGTTGIPKG VMLSHDNITWIAGAVTKDFK/P TDKHETVVSYLPLSHI/AAQMM DIWVPIKIGAL/IYFAQADALKV RLSKDLGSDFILLGSPVGLRPST KRLPVLSKLGHTYRRVVWVEE SSGPHTISNQNNYRLQGPMMK LKRHFVAQKYKKQIDHMYH
4549	34917	A	4590	1	837	MVTQKLPAQENLKAERQAA GCCPGRSHIFQHVGP GASESLR GEGCSTHPEAQAQERCEQWK KDQHWCLASHTDVTQQWGRH IVQEGGTHRGPSAVLSLRTALD EG/ARGGCSHPITAQLPLQLRHL PRPPPAPAR\SPAPPAATSPPT\P PPAPAR\SSPAPPAATSPPTASSG ACAALPQLPLQLRHLPRPPPAP AR\SSPAPPAAMSPP\RPAPARP RLRRSTACATALRPGERGSAAA QPGARSETSFCLG/AAA AVL D PAFISSQALACPVVGV I

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4550	34918	A	4591	3	377	
4551	34919	B	4592	1	1632	
4552	34920	A	4593	1	1224	MDGTNRFYLYVWETERQQDV EHVARCILCYDKCRPDPECPAG TPGPQEVDDVLDLVFVVDSSYGV DADVYRGSLSLADALEDLEV AEQPGASHRGARVALVTHHTP NF\GRGFHLTTYGNRKQMQRH VREASARPLQGTAPPGHALEW TLENVLLAAPRPRKAQVLFIV ASETSSWDREKLWTLSEAKC KGITLFLVALGPGVGTHELAEL AELVSAPSEQHLLRLQGVSEPE VNQAQGFTRAFLNLLKSEQSPG TGAPWVEWGEGFTEPGIWACR WTNQYPPPELTEECGGLHRGD TVLQLVTPVNRFMYAANKENSL KRKTKANFHLAVELELDESIFR AYYEGTLYEVSALPLQRSNELL QKWSLFHGSNGRRVSGSHPEV ALQQGGTGLPAVLVWQLWRQ
4553	34921	A	4594	266	556	HKVQQICYRLRLVSQILFSINQT LAERQIVTFTVYPDTERDRETR NLADLKQIKIDLGKFSNPDGY IDILRGLRQSFDLTWRDIMLLL NQT LAPN
4554	34922	B	4595	1	735	
4555	34923	A	4596	70	624	PTAMVEEGIAAGGVMDVNTAV QEVKLTALIHDLARGIREAAK ALDKYVYQSQYCGFLQPDQKL ATQGKKGMGVHGVKRKSS*M ASVLPGNLRKRRQAHLCLVAS NCDEPMYVKLVEALCAEHQIN LIKVDDNKKLGEWVGLACKIDR EGKPRKVVGCSVVVKDYGKE SQAQDVIEEYFKCKK
4556	34924	A	4597	145	682	SWRNRTVSNGSAVSASSVHLCF AECKALCGERILTDGSDVSRPTI AAGGVTDVNTALQEVKLTALI HDGLAR\GISRTWPKAL\DKRQ AHLCLVLA\NC\DEPMYVKL\V EALCAEHQINLIK\VDDNQET* EKWV\GLCK\NREG\KPRE*WL VGS*CSSLRTIGKESQAQDVIEE YFKCKK
4557	34925	A	4598	252	590	RSLDLVVWQLSGGLAGSAKPK PCTPVKQSTVMSFSPHKEQYFL MDGKKK/YDKESEKYYSILEKH LNLSAKKKESHLQENSSGPSVS TKLINLFSKRLLC AFLPAQLTPY SFCS

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4558	34926	A	4599	1	1662	
4559	34927	A	4600	4430	4904	LIKGTRCLGRRPSFAYSRSNIA *S*/EGTSAQLAELLALTALALE LGNGKRINVYTD SKYAYLILHD HAAIWKERAFLTSGGTPIKYHK EIMELLHTVQKPKEVAVLHCQS HQKESPLEDTT TAGPLLHPYP AGSSPERSSPSSQQLGLDFRGII
4560	34928	A	4601	1	2630	MEQANHPVRLINVCKDTLKKI VQETSCPLTHVHYAÆAITGRC TAPEDKGS LDQKPPTDDPTGCP WQVPAHVITLTETWVCLTIEGQ EIDFLDGTGVQKPNQWRLVQ DLIPIKEAVIPLYPVVPNPYTLIS QIPEKAEWFMALDLKD AFFCIS LHSDSQFLFAFEDPTNHTSKITR TVLPQGFRDSPPLFGQALAQDL GHFSSPGTLVFQYVDDLILATSS EASCQQATLDLLNFLANQGV VPNLWGKLPLNTRKSWSYCT QCKNPRRWQSYTAKAIKKQLA EAGPVTAILLLLIFGPCIFNLLIK FVSSRIEAIMLQMVLMQEPQMS STNNFYQG PLDRCTDPLSGLES SPRCSEAPCLMSQWTGDIEYDL LLPPIPHQTTLCDLQNLKGIFSR YHRKWYGEILALLTPTANVCG HSQVPHACSIYHDPVTWNPQG LLPKSLYGVTWKWDKEHFEWG SQQQRAFYELK\KKLMSAPALG LPDLTKLFTLHVSDREKKMAV RVLTQTMGPWLGPVAYLSKQL DGVSKSWPPCLRALAATALLA REVDKLT LGQNLNIKAPHAVV TLMNTKGHHWLMNARITRYQS LLCDKPHITIEVCNTLNPTLLL VSESPVEHNCVEVLDSVYSSRP NLRDHPWTSVDWELYVDGSSF INPQGESVWGIIQGRPIKLWG KRRKVSARDLAIIGGSVEAPKL
4561	34929	A	4602	1	506	FLALTSRFLFVLLNEETRSHLEK SLCWKVSPHIKMDLLQWIQSK AQSDGSTLQQGSLEFFSCLYEIQ EEEFIQQALSHFQVIVVSNIASK MEH MV\SSFCLKRCRSAQVLHL YGATYSADGEDRARCSAGAHT LLVQLPERTVLLDAYSEHLAAA LCTNPNLIELSLYR
4562	34930	A	4603	3	381	
4563	34931	A	4604	3	483	
4564	34932	A	4605	3	410	

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4565	34933	A	4606	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
4566	34934	A	4607	2	481	LAPLVKEIHDNFGMGEGMLTT GHAITATHKTADGPSGKLWRD\ GRGAHQNIIPASTGAAKAVGK VMPELNGKLTGVAFRVPTANV SVVDLTCRRQKPAKYDDIGKV VRQAPEGPLKGILGYTEHQVVS SDFNSDTHSSTFDAGAGIALND HFATLSPPPH
4567	34935	B	4608	79	278	
4568	34936	A	4609	2	1201	PSTACRNSARACSTVSRIFFCVA SRATSLRTPMGKVKVGVNGFG RIGRLVTRAAFNSGKVDIVAIN DPFIDLNYMVYMFQYDSTHGK FHGTVKAENGKLVINGNPITIFQ ER\YPSKINWG\DAGAEYVLEST GAFTTMENAGAHQLQGAKRVI ISAPSA\D\APMFVMGVNHEKY DNSLKIIISNA\SCTTNCLA\PLA KVIHDNFGI\VEGLMTTVHAI\ ATQKT\VDGPSGK\LWALMGPR GFFQEHQSLPFTGGC/ARVVGQ GSSPELERGKLTWAWAFRCPCQ LPKRVNGWDL\TCRL\EKPCPK YD*HQGRVVKAGRRKGPLQGA ILGLQLSNPGGSPSGLSTSDNPL LPPFDAWGLAFALQRTHFCSKL IFLGIDNGILGYSNQGGWDLHG PPWPTWAFQGS
4569	34937	A	4610	61	226	WRIMPTKKVMITMGRTTQRRM LES/SQQFWPCHLH*KLVPSCLQ LGCLVFHFRER
4570	34938	A	4611	153	495	QHAAECKAHAGLPGLPLPARK LASRHGAPRWQSGVGPGGKV ENYGRRRL\PGTRHPQSLSHKP AKKIDVARVTFDLYKLNPDQFI GCLNMKATFYDTSLSYDLHC CGAKRIMK
4571	34939	A	4612	1	643	
4572	34940	A	4613	286	698	ESDNNLTQGTSI*QGTRHPQSLF PLSPAKKI*CGPVLTF LTCYKLN PQGLSLGCLNIEGRFFMDYVIPF PIDLALLLGAKRIMKG\TLHWA LFSMQTTGPRA/VFTSCYLQQL LDATEDGHPPKGKASSLIPTCL KILQ
4573	34941	A	4614	59	294	
4574	34942	A	4615	1	2253	



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4575	34943	A	4616	2	197	LARSGMGFYRRGLLGEVKGRV EGNRMWHVIVRTSPNHRVYTF LKTHPSVVPGSIAFSLPQ\RPWS
4576	34944	A	4617	302	441	
4577	34945	A	4618	944	1257	RLPFSPRSVGPQPAPRLLCNG WRQLPTTFTELEK\TLKFIWN QKRALIAKTI/LKPKNKAGGITL PDFKLYYKATVTKTARFLLYK VSQIDNTDLFDPVKIKFE
4578	34946	A	4619	1	1370	MNIDAKILNKILANRIQQHIIKKL IHHDQVGFIPGMQGWFNIRKSM NVIQHINRTKDKNHMISIDAEK AFDKIQQPFMLNTLNKLGIDGM YLKIIIRAIYDKPTANIILNGQKL EAFPSKHGTRQGCPSPLLFNIV LEVLAIRAIRQEKEIKGIQLGKEE VKLSLFADDMIIYLENPIVSAQN LLKLIGNFSKVSEYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SIRIKYLG\*LTRGVKDLFRENY KPLLNKIKEDTNKWKNI PCSWV GRN\NIMKMAIL\PKVIYRFNAIP IKLPMTTFTELEK\TTLKFIWNQ KRARIAKSILRQKNKAGGITLP DFKLYYKATVTKGAWFQIIHK HTLIKEPLLDSPNRPDHIK KQDKQPQTKNIANASADSKNT QQMNGFVTGAATSFIPKDR TAS SLCGCTGRRRQSVAKYLRIRPII NVPSFTYYK
4579	34947	A	4620	2	671	WHQNLALTRASGSFHS/WEEG KGGADMSHEICVANLQVYVRS TDFDRTLMSAEANLAGLFPPNE VQHFNPNISWQPIPVHTVPITED RLLKFPLGPCPRYEQLQNETRQ TPEYQNRSIQNAQFLNMVANET GLTNVTLETIWNVYDTLSCEAP SPPWGRKPPLERLWPRPRELTC PLRYT\QTHGLLLPPWASPQTV QRLSQLKDFSFLFLFGIHEQVQ KARLQG

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4580	34948	A	4621	1	1923	DSVAFEDVAVNFTQEEWALLG PCQKNLYEDVMQETIRNLDCG HETEFVEYENLRDPMNMLHT TDGPHKCKICGKGFDCPSSLKS HERTHTGEKLYECKQCGKALS HSSSFRRHMTMHTGDGPHKCK ICGKAFVYPSVFQRHEKHTAE KPYKCKQCGKAYRISSSLRRHE TTHTGEKPYKCKCGKAFIDFYS FQNHKTTHAGEKPYECKECGK AFSCFOYLSQHRRTHTEKPYE CNTCKKAFSHFGNLKVHERIHS GEKPYECKECGKAWSLTCFLR HERIHMREKPYECQQCGKAFT HSRFLQGHERIHTGEKPYECKE CRKAWSLTCLLQHERIHTREK PYEGKQCGKAFTHSRFLQGHE RTHAKKLCECLSTVSARKSVD LIASYPFLNLFSTPKTLRNCSY RRHERMHTGEKPYECKQCSKA LPDSSSYIRHERTHTGEKPYTCK QCGKAWSVSSSLRRHETTHSAE KPYECKQCGKTFHHLGSFQIHM KRHTGDRPHKCKICGKGFDRPT LVRYHERISTGEKPHECKQCGK AFDHLGSFQRHMIRHTRDGP KCKICGKGFDCSSTLQSHERTH TGEKKLYECKQCGKALSHSSSF RRHMTMHTGDGPHK\CKICGK
4581	34949	A	4622	1	256	MGKGSFKYAWALYKQKAECE RGVTIDTSLWKFETSKCYVTIK DFIKNIITGTSQQGQTASVA AFC ILSSCPASWKNQVSHRLGG
4582	34950	A	4623	173	717	SINAVASTRRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERG ITIDISLWKFETSKYYVTIIDAPG HRDFIKNMITGTSQADCAVLIV AAG\VGFEFA\SIQNG\QTREH ALLAYTLGVK\QLICRVNKMD STEPPYSQKRYEEIVKEVSTYIK KIGYNPDTRAFVPISGLNGDH MLEPKC
4583	34951	A	4624	3	525	GCPSGPGHRCVAGHGAPGAVC RHPVPTAWPGYSRCSGPGPRGV EAVGHQRHRAPETHSTPAADR HRRGLPGS\KSDSAMEPSPSPAP QAQPPKVPKPRTVFGGLSGPA TTQRPGLSPALGGPGVSRSPSP PRPPPLPTSSSEQSSALNTVEMM PNSIYFGLDSRGRAQAQDK

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4584	34952	A	4625	2	448	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFFKKAVNFA DAAAQGP LLPAMVNPTMFFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFYKKGSCFH RIIPGFTCSGDFTRPTA
4585	34953	A	4626	1	751	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADKVPKTAGV*FFFKQKIFRA LSTG\EKGFYKGFPAFHRIIPG FMCQGW*LSHRHNGTGWQVH LMGRNFEDENFILKAYGVLGS LSMAKCLDPTKIGSPVFPCTA KT\EWL\DGQALWCFGK\VKKG LNIVEAMERF\GSRNGKTSKKI TIADCGQLE
4586	34954	A	4627	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGAIFCR* LLSF*ETALGLLLGFGGN*TFDY
4587	34955	A	4628	3	354	DSWA\VANGLA\GWS\GTWKK HDWK\NDNEIWGK\SMWIDLS EWSKTVKIFVSHESAHHIT*KSS AEEDFNNQVDRMIHSVDTRPL SPATPVIAQWTHEQSGHGGRD GGYTWAQQHGL

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4588	34956	A	4629	281	1529	VRVLSPVEKELKLWKNTHKLL SYPTVGA AVTQLQNL TAMGVI GSHGARGQVVALNRQRQGD QPFTRTVHVGKG/NMQIFGGL LDTGSELTLP GDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECHIGIDILSS WQNPHIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYIHL GGTVEISATIKDLKDTEAVTPTT SPFNSPIWPVQKTDGSRMTV DYCKLNQVVTPIAAAVPDVVS LLEQINTSPGTWFEWSPK KAL QQVQAAVQAALPFGPYDPADP MVLEVSADRDALWSLWNAAI GESQRRPLGFWSKALLSSADNY SPFERQLLASYWALVETERLTV GHQVTLRPELPIMNWVLSDPSS HKVSGAQQRSIIKLK WYIHDW
4589	34957	A	4630	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSPR YGTIPW/WAWDAPGGRGCWRI QKAGE
4590	34958	C	4631	122	325	
4591	34959	A	4632	1	346	MAGEKVEKPDTEKKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQAL
4592	34960	A	4633	115	905	EAFQTLHFCCGLRQGTKRMA GEKVEKPDTEKKKPEAKKVDA GGKVKKGNIAKKPKKGRPH CSRNPVLCSEGFGRYSRSAMY SRKAIYQEGSTFSPLKSKVEKK KKEKVLATVTKPVGGDKNGGT RVVKLRKMPRYPTEDVPRKL LSHGKK/PFSQ/HVRKLRASITP GTIL/ILTGRHRGK/RVVFLK/QL AKLAYLLC*LGPLVLNRVPI.RR THQKFCHLPLSTKIDISNVKIPK HLTDAYFKKKKLRKPRHQEGEI
4593	34961	A	4634	2	350	FVALAAVLCRQCLPRAWVCRK AGQSGRHYRAAICAELKKPLT IEEVAP/DPVGPHEVRVDVHFC GVNFGDILICRDQYQERPHLPFT PGPVADSRKGLPIRSCPPYNL WHCDFCS

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4594	34962	A	4635	1	556	MGLKLNTHMDQTRGSLSGDTL EGSPSKRAKILKRGGFRGILGG VG VQERRTGQRPALPCHDLRR AEVVPDHRRGGRPVGPHEDL WQIPEKVSLQEAAVLPTGYTE SFALEHRARTQPGIIVLVTA GATGLAVMWQQISSGQGNIAA AGSDEKCKLAM\EKGAQSSVN YSQGSCLKDSATDQ
4595	34963	A	4636	1	142	
4596	34964	A	4637	2	368	
4597	34965	A	4638	2	504	HKVGHAQHHSFITWKWYTRD WSRAGPEGTVGPYDQLTEEEK TRAWFTDGSARYAGTIRRWTA AALQPLSRTSLKESGEGKSSQW AEVRAVHLVVHFTWKEK*PDV RLYTDSWAVANGLAGWSGTW KKHDWKIDDNEIWGRGMWIDL SEWSKTVKIFVSHESAHHIT
4598	34966	A	4639	182	840	RTAVKGNLPTTPVI/SQWAHEQ SGHGGGRDSGYTWAQQHGLLIT KADLAMTTAECLISQQQRPLS LQYSSIPWGNQPATWWQIDYIR PLPSWKGSQDSQDRSRNQGV KVKVAPLTITPSDTTAKFLLHV PAALHSAGVDVLVPEGGMLPP GGTTTIPLNWKRLRPPGHFGLLI PLSQQAKKRVTVLAVIDLDC QDEISLLLYNRDAKELYRYTAH
4599	34967	A	4640	3	283	SRVSCSPPLSPPPLSPPPLSPP PLSPPPPPLSPPSPPPVSLPPP PPVFSFPSSCP/PPFPPLLPPLPP PPLSPPPPPPWSPSPPI
4600	34968	A	4641	1	531	MGSSHCTQPGMLAAAVGQAVP GTDTGADSVSLASCSCHQHAIH CAQAIRAKGHLQAHTELPSAPT QPPSCARQCPKSGGDLGGRELY NNHEIRSGKHIGVCISFANNRLF VVSIPKSKTKEQILEEFIKVTGS YWVLGLSFD FRKWPV/GQCCQ SFHGRRLRATPARRAERRDARSF AL

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4601	34969	A	4642	115	2405	ATAEGSGSSGVKERGAGIRKAE RRRTEASGGGGGRGRRRSWRR AGAEGVSEADARGRGKGREG KGGSRGGARAHRRERARRVEL DRVCCQRRELPPFYNSSTRAG HREQRARVSRNPIPSDRISPPQP NGEISGNMATEHVNGNGTEEP MDTTSAVIHSENFQTLDDAGLP QKVAEKLDEIYVAGLVAHSDL DERAIEALKEFNEDGALAVLQQ FKDSDLSHVQNKSAFLCGVMK TYRQREKQGTKVADSSKGPDE AKIKALLERTGYTLDDVTGQRK YGGPPDSVYSGQQPSVGTEIF VGKIPRDLFEDELVPLFEKAGPI WDLRLMMDPLTGLNRGYAFV TFCTKEAAQEA VKLYNNHEIRS GKHIGVCISVANNRL FVGSIPK SKTKEQILEEFSKVTEGLTDVIL YHQPD DKKKNRGFCFLEYEDH KTAQAARRRFN*VGKVQGF GNVGTVEWADPIEDPDPEVMA KVKVLFVRNLANTVTEEILEK AFSQFGKLERVKKLKDYAFIHF DERDGA VKAMEEMNGKDLEG ENIEIVFAKPPDQKRKERKAQR QAAKNQMYDDYYYYGPPHMP PPTRGRGRGGRGGYGYPPDYY GYEDYYDYGYDYHNYRGGY EDPYYGYEDFQVGARGRGGRG ARGAAPSRGRGAAPPRGRAGY SQRGGPGSARGVRGARGGAQQ
4602	34970	A	4643	2	369	
4603	34971	A	4644	1	1002	MNAGCGQTHDCAYRQKRPED VNEEGRLEQRNRKRQDEWGPR DKPASSGYKAGTLDVENWNRA GEGKHAHQKGLKVDSSAFCT CSLIRTVLMPLSPYYSAGQQA SKNLKESVVPPTASIENKKQER EDKNWPILPPPVAETSVPPPSVA GIETPIQRILRSAAIAGEPSGPCA FPISVRPDSNNPQQFIHEHTPLEF KLLNELKTSVVNIGVQSPFTLG LPESAFGAMRLLPFDVKHVAR TCLSASAYLTWNLNGQEMCTD QVRQNR AAGHGDI AEDMLLGN GP/YFRPGTSNGTKRAWATIPEE GVPVQSFLPFMEGSQEPSAQFL ARLREAV
4604	34972	B	4645	1	575	

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4605	34973	A	4646	1	776	VVLMRNLMMSGTIFSM LANISML GSLVIIIQYITQEIPDPSRVPLVA SWKTYPLFFGTAIFSFESIGVDL PLENEMKNARHFPPILTLGMP VTTLDIGMAALGYLRFGD\DTK GSIILSLPICWYLHGLSGEGPSQ SFSERETKAQVIVPRSEVNVPRR PVSEHSGRGEQLCGLSCRLYQS VKLLYIAGILCTYALQFYVPAEI IIPFAISRVSTRWALPLDLSIRLV MVCLTSAPMTRSTPFCKYSTRG RRRWLEIPV
4606	34974	A	4647	1	1294	MGKDFMSKTPKAMATKTKIDK WDLIKRKSFCTAKETTHVNRQP TEWEKIFATYSSHKELISRIYTE LKQIYKKKTNNPINKWAKDMN RHFSKEDIYASKKHKMKCSSSL AIREMQIKTTMRYHLPVRMEII KKSGNNRQPIVGPCDNSVILLY KILANRIQQHIKKLIHHDQVGFI PGMQGWFNCTCKSINVQHINRT KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLIGIDGMYLKIIAIYD RPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGSQLGKEEVNLSLFADN MIVYLENPIISAQNLPKLINNFS KVSVCINVQKPQAFLYTNNR QTESQIMSELPFTIASKRIKYLVI QLTRDVKDLFKENYKPLLNE/I K/EDTNKWKNI PCSWVGRINIV KMAILSK
4607	34975	A	4648	2	711	WNRRRPCIAKTIL/SQKNKAGGI TLPDFKVYCKSTVTKTAWYWY QNRHIDRWSRTETSEITPHIYNH QIVDKPHKNKQWGKDLLFSKW CWENWVAICRKLKLNLFTRY TKINSRWIKDLHEKLKTIKTL NLGNTIQDIGIGKDFMTKMPKA IATKAKIDKWDLIKLSFCTAK ETIIRVKNQPTWENISAIYPSD RSLISRIYKEVLKNIYKRLDAVA HTCNPITLKGQGRWIT
4608	34976	A	4649	1	576	
4609	34977	A	4650	1	771	

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4610	34978	A	4651	1	887	FPEDSEPISSHGNYTKQYPVFV GHKPGRNTTQRHRLDIQMIMIM NGTLYIAARDHIYTVDIDTSHT EIYCSKKTAWELDRPMVATCR MKGKHKDEACHNFIKVLLKKN DDALFVCGTNAFNPSCRNYKM DTLEPFGDEFSGMARCPYDAK HANVALFADGKLYSATVTD AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKLLGLHHELL RRTQDYGHKAGCPESCLLSVRR CPPPQSKAHRESVEELIKGCRR HAGFCACGHITT
4611	34979	A	4652	1	2890	MVLLKVDPGLWGSSLRVLLKA DPPYGTQAHAEHRHGRALAGGL GVGEQSQSLDLLRMSHTYGAL FLPRAAVSSWCASVRIRKIKKSP LLDGAPLLYEPDTWLGWSS WTLVFTHPFSAALTHSALTARS DTGSLTLSPDGKLYSATVTD AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKVVFPRVAQ VCKNDMGGSQRVLEKQWTSFL KARLNCSVPGDSHFYFNI
4612	34980	A	4653	1	480	MEGVEEKEKVPVPETLKKKQ GNFAELKIK\PKMAFVLRIRGVS GVSPKVRKVLQLLRLHQIFSGT FVKLN/KASVNMLRIVEPYIAW GYPNLKSVNELIYKRGYKINK KRIALTDNTLIVPSLGKYGILCM EDLIHEIYTVGKHFKKANLLW PFKLSSP
4613	34981	A	4654	3	279	
4614	34982	B	4655	119	177	
4615	34983	A	4656	157	359	HQRCRK**TKLEG*TCRKIEVN TDYIKP*E*EFWMIYYISYLT CSSICNENILQLENREKSRNT



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4616	34984	A	4657	65	900	GLAFPPILQKESPHPCLEWILFTSP VALSTSRPPCVISSAALCPRRHG FLPPRLLAPLAAAFCPRRFCFLP LPPRLFAPAPVDFCPRRCGFLPL PPRVFAVSCPRRRGLLPPLLFAP SAAAFCGFLAPSPWLFAAFGTR CRGFLGLLVPAAAAFFPRRLRF FLPRLFSPAAAVTFCHPCFLPPP PRLSVPAASFCRRGFQQEIRTV EIRGSGTRVGLQHQTGHLPRGP SSLPaelHA*ARVSPLEASPPSC TR/WMQQPEDLGPALTlGRICG VGACWEL
4617	34985	A	4658	927	1157	ARRSTAPVDCK*LQP*AQAAL WVLVWDHEAARQPEGVVQPA PGLWPSSRRWRKFQAPGSSGV CHPGALQACPEELS
4618	34986	A	4659	1	563	MKLVAVFDDKQDLHHGGDDISA SSMHTQSPERFTSASELGTNNV SAFSVYQAASEIEVTSSVLHAS SQKGLSSQHLGFGAPQAGGGSF RHLAPQRKEVLEEYFKYDPEH KLIFRFVRTLFKAMRLTAFAIE ITHGGRDVERATGLVNKIHRQG CGDSFCNIGGNAKPYVCCGKE YVSSSKHQNGIAI
4619	34987	A	4660	1	681	MGKYAEALRSQQKAVLMSVR VMGIEHPNTIQENMHLALHCFT SRQLSLALSLLQGAHYLM/LLV LGE/DHPEVA/LLDNIRRVLHRV MEYDLSLCFLDNALAVSTKYQ GPKALKVALGHHLITSVYESKA EFRSALQHQKEGLAAH/TSLGE DQEKTKESSEYKCLTQLAVAL RRAMHEIYRNGSSNNIPPLNFT APSMASVLEQFKGINGILFIPLS QKDLESLSKAEVAQ
4620	34988	A	4661	2	443	VWQSGGDSITSKTNIITCVNCY LYTCIDSSFNQYHSILIVRARQD IWLPVALHRPWESSPFIVINNI LQKILKRSTQFIFTLIAIIMGLIA VTVIAATAGVALRQSIQTVHFV DKWQKNSTRMWNS/QRIDQKL ANQINDLRQTVIW
4621	34989	A	4662	2	377	FAFTWTDPDTHQAQQITWALL PQGFADSPHYFSQAQISSSSITY LGIILHENTRALPADHV*LISQT PISSTKQQLSFLGMVRYFCLWI PSFTILTKPLY*FTKANLADPTD PKSFPHSSFRSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4622	34990	A	4663	1	1095	MAKAVLSKKNKTGSTTLPDFKI YYKDIVTEEPGIETLRHTSSTKF SKGLPSRESFSEKQNKTTTHLH PGEINSFIAHTKPAWRSHTDA HEIWCRSDSQVNSPGRSIPCPA LCSMRKIHLRPLVLRPASPRNIS PILNPLHLIAALLPNPKPPFRPPL VSPDLNPQVKDISTPSWATDHV HLTVSLKPYHPYPAQCQYPIQ HALKGLKPVITRLLQHGLLKPI NSPYNSHILPVLKPKPYRLVV QDLRLINHIVLLPIHPMVPNPYT LLSSIPASTTHYSVLDLKHAFIT IPLHPSSQPLFAFTWTDPDTHQA QQIT*AVQPQSFTDSPHYLNQA QISSSSVTYLGIIILKAHVLSLPV
4623	34991	A	4664	655	2417	KKRESMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGRQGW NICKSINVQHINRAKDKNHMII SIDAEKAFDKIQQLFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGKKLEAFPLKTGTRQGCPPLSP LLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDANKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRAHITKAILSQKNKA RGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTQPSEITP HIYNYLIFDKPDKNKQWGKGS LFNKWCWENWLAICRKLKLD FLTPYTKINSRWIKDLNVRPKT TKTLEENLGITIQDIGMGDMFM SKTPKAMATKDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK VFSQPTHLTG*YPESTMNSNKF TRKKQTTSPSKSGRR\NEQTLLK RGHLCSQKTHEKMLTITGHQR NANQNHNEIPSHTC

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4624	34992	A	4665	1	234	MQNQEKFGELISEWAPYGRPRP QIAVGDHHISVYDGEVNWRRMS SLQASAAGKDYANRGTEWGEE PSQMLRHLLSGEMCVSRNRG QPLANSERRSEALSPVTPKKLIP ADGHKSDPGRTWMKLETHLSK LTQEQKTKHHMFSLISG*FAEN DGFQLHPCPSGSLWPSAGISF FGVTGLRASDLLSLLARGCPRF LDTHISPLSSS
4625	34993	B	4666	1	2553	
4626	34994	A	4667	33	272	
4627	34995	A	4668	1	3045	
4628	34996	A	4669	1	334	
4629	34997	A	4670	159	245	FPIVASPWLLC*LMSFAGTWVK LETIILSKLSHGQKTKHRMFSLI DTVVGSDDFLLRVPGCCASS LNAAHTSVNIKLELT
4630	34998	A	4671	122	359	TANLKNRKF*PIHLTKG*YPE STKNVNFTRKKQTTPSKSGQK I*TNTSQKKTFMQPTGT*KNAH HHWSSECKSKP
4631	34999	A	4672	2	66	RLVYADTCFSTIKLKAEDASTS ENMRCLVFCACDSLRLMIVSSF IRVPTKDMYSSFFMAA*YLLQY HQVKSRRCFYE
4632	35000	A	4673	519	899	SALVCHTCSNWQVHLGDSVFY RSEEQPLEPLPFSYLSSLFPLHP DPVSSGSQQPS*MPHTDASVTS SHGLGGLAGRNSCIYPCCAPAL CADYLWGSPDLFLLLSFQHKG NVGVGLAHSPQFQQGN
4633	35001	A	4674	1	278	
4634	35002	A	4675	158	592	GYWWRPSFQSLRENNQCQRKS NSVNAGCLNCDHCVLGIYQQH *QNYFSFDIHYFLSETGRKVSSS I/AYFTIGETEALSGKVVPYWQQ AAGQGCTLHLLLPQTRLFPQGG RRQPGLLREF
4635	35003	A	4676	302	721	
4636	35004	B	4677	1	871	
4637	35005	B	4678	1	559	

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4638	35006	A	4679	3	2386	RVATMAPHRPAPALLCALSLAL CALSLPVRAATASRGASQAGAP QGRVPEARPNMVEHPEFLK AGKEPGLQIWRVEKFDLVPVPT NLYGDFFTGDAYVILKTVQLRN GNLQYDLHYWLGNECSQDESG AAAIFTVQLDDYLNGRAVQHR EVQGFELAP\FLGYFKSG\K\Y KKGGVASGFKHVVPNEVVVQ RLFQ\VKGRRVVRATEVPVSW SFNNG\DCFIL\DLGN\NIHQWC GS\NSNRYERLKATQVSKGIRY NERSGRA\RVHVSEEGTEPEA\M LQVLGPR\VALPAGTEDTAKED AANRKLAKLYKVSNGAGTM YVSLWAD\ENEFTQGA\LKSED CFILDHGKDGKIFVWK\GKHAN TEERKAALKTASGFHSPRWDY PKQIQVSPFLEGG\ETPLFKQV FKNWRDPDQTDGLGLSYLSSHI ANVERVPFDAATLHTSTAMAA QHGMDDDG TGQKQIWRIEGSN KVPVDPATYGGFYGGDSYIILY NYRHGGRQGGIYNWQGAQST QDEVAASAILTAQLDEELGGTP VQSRVVQGKEPAHLMSLFGGK PMIYKGGTSREGGQTAPASTR LFQVRANSAGATRAVEVLPKA GALNSNDAFVLKTPSAAYLWV GTGASEAEKTGAQELLRLRA QPVQVAEGSEPDGFWEALGGK AAVRTSPRLKDKKMDAHPRL
4639	35007	A	4680	1894	2161	MFGLPNARAATSTAPFASHSLC LCFRILLLLGPGINLANPRNHLV LHQKFSILGRHFSLATEEPCISL ALAPSKRWECNSSS*RYENN
4640	35008	A	4681	1	1803	
4641	35009	A	4682	1	501	MTFQCVVNTHYLTYPRPQRFL YLVVVRPSCASWIMFVLIDRGY VFSYFPQSYGGFGSRILSKPIEV QVGGRSVVAQMWSNCKGQYS DLASLGCISR/YSAGSVYYPSY HHQH/NPVQVQKLQKELQRYL TR/KIGFEAVMRIRCTKAKPTRH RHYGELEISITHIRAIGK
4642	35010	A	4683	350	623	

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4643	35011	A	4684	1	3252	PPGPERSRLGLGVSLHQRSCP K CIAVFTRVSEPRIQFPASRII.PSS NTSKDFDPVSGQSNYGGSGQS GQTLNRPPVASNPVTPSLIHSGP APRMPLPASQNPATTPMPSSSF LPEANLPPPLNWQYNYPSTASQ TNHCPRASSQPTVSGNTSLTTN HQYVSSGYPSLQNSFIKSGPSVP PLVNPPLPTTFQPGAPHGPPAG GPPPVRALTPLTSSYRDVPQPLF NSAVNQEGITSNTNNGSMVVH SSYDEIEGGG
4644	35012	B	4685	51	236	
4645	35013	A	4686	1004	1405	
4646	35014	A	4687	1	771	
4647	35015	A	4688	1	405	SENVDDVSVMMG/TPANKALL DTTGFWHD/DFNNATPNDICVA IRSE/AADAGIAQAIMQQL.FEA/ LKQQA/LDRNLNVMMFSDNVT LE/DEIQLK/TRAREKGLLV/MG PDCGTSMIAGTPLAFA/NVMPE GNIGVIGASGTGFRR
4648	35016	B	4689	1	1656	
4649	35017	A	4690	1657	2259	LPQPQPATPWPSAPTFRFASPA A AMATLWSGTCRIRLWSGSSRA TRTAPAAALIFPITALGSGQGAW TTRCAAGTCGRAASCSSMTSA/ AQIFSPCHCPNQDWLAVGMES S NVEILHVKGPEKYQLHLHESCV LSLKFAPCGRWVFSTGKDNI.L NAWRTPYGASIFQSKESSSVLS CDISRNNKYIVTGSGDKKATVY EVVY

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4650	35018	A	4691	62	1371	QNSTISVMLRSAMTTTMAAD LITAI/MGQRKQHIDTGFWHDD FNNATPNDICVAIRSEAADAGI AQAIMQQLEEALKQLAQSGS SQALTQVRRWDSACQKLPDAN LALISVAGEYAAELANQALDR NLNVMMFSDNVTLEDEIQLKT RAREKGLLVMGPDCGTSMIAG TPLAFANVMPEGNIGVIGASGT GIQELCSQIALAGEGITHAIGLG GRDLSREVGGISALTALEMLSA DEKSEVLAFVSKPPAEAVRLKI VNAMKATGKPTVALFLGYTPA VARDEN/VWFGSSLDEA\SLAG CFSVRARSPLTRIDGMMILGMF GGCFAASLWANNVKLRMPRSR IRIMQAIIGGIIAGFGARLAMGC NLAFFFTGIPQFSLHAWFFANP LLIGQTLEDPEHYIDYLDKEFPL YQLVECVVSLNYSYHWECTEI
4651	35019	A	4692	1	1125	MEAEVDKLELMFQKAESDLDY IQYRLEYEIKTNHPDSASEKNPV TLLKELSVIKSQYQTLYARFKP VAVEQKETKSRICAGMTKTMN VIQKLQKQTDLDLSPLTKEEKT AAEQFKSHSFGMWPCCLKYRQ NKKKKKKLSQNRSTTWKLNNL LLNDYWIQNEMKAEIKMFFET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLAL QLKELEEQEOTHKASRRQEIT KIRAEKIEIETQKNLQKINESRS CFFEKINKMDRLLARLIKKKRE KNQIDAINKDKGGITNDPTEIQT TIREYYKHLANKLENLEEMD KFLDTYNLPRLNQEEVESLNRPI TGSEIARINSLPT\KKSPGPDGF
4652	35020	A	4693	2	421	GRVGGRVKGIRT*LN*IETKKY KR*NETKSWFFEKIKMDRPLAR LTKKRIKEIQITSLRNETGNIITD TTEIHKIIQG*SSSSSSSSSSSSSS SS\SSSSSSSSSSSSSDTFKRPIT GIKIEMVF*KLPTKKSRISL

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4653	35021	A	4694	1	654	MEYYAAIKNNTFMSFAATWM KLEAIIILSKLTKEQKTKRHMFSL VSTLELGALTALVRCGRWRRQ CDDEAMACVTQGRPLARLTKK RREKIQTSLRNETGDITDTTEI QKIIQGYDEHTYAHKVENLEG MDKLLEKYNPPRLNQEELGTL NRPITSYEMEMIIKKL/PNEKSP GPDGFTAIFYQTFKEELVPILLA LFHKTEKEGILPNSFYEASITL
4654	35022	A	4695	1	786	MPPSLAYKNRPQQADTQVA/T MSRGVHWRKKMQAAGPREDV KRSTQAEHTRHQHTSR\HQL LLMRIFEMGWKKPSPFQESIPI ALSGRDILARAKNGTGKSSAHD IPLLKRLDLKKDTIQTIVIVPTG GPALQVSQICIQVSKHMGGVK VVMTTGGTNSGDDVLRLLDDTV HMVIAAPGRILNLIKKGVAKLE ETYL RHIGRPGHFGHFLAINLI TYGDHFNKLGIEEQLGKEIKPIP SNIDKSLHVAEFHSAVENEKP
4655	35023	B	4696	1	501	
4656	35024	A	4697	2	573	YSACFFLFSIAMGILLTVPPSFWI PTSFS AFLGFFSSFSLLVLHQPD FSFVLGLWRIISLLVLKIVEGSS NQGMQMASRSWEWPSSSRKM ATSVRTLPEP/GPSGCRAPSAFPF RKEAGADPSGCPGGRQVPLVAI GRGGALEPQRWELRAPGSAGR LPREGGRTPGAQSPAGAQSPA GKQSPPGAQSPLH
4657	35025	A	4698	2	346	PPINISVPHC*PFGG/EPLEILIPAP ERSSHVLSQSPVRTHSSAVHQS VGASLNCGDKQPPNFSGSKIFF LIYLHLMTGQVRGSSVLCHPNT GIQKEGGTVNEIPAIIEKRKKHA
4658	35026	B	4699	1	468	
4659	35027	A	4700	2	284	ETGEFTQLKELNIQGNCWTL PELGNLYLTGQKKVCKVENS P WVTPIAGQFQLDVSCVSECVC S ETYEYLYGQHMQ\ANP\EPK KH NNHKS GKD
4660	35028	A	4701	5	189	
4661	35029	A	4702	38	190	

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4662	35030	A	4703	2	882	WPSVSSG/PSSAVSFSSFDPGVA SCTSSASGIQRPMASEVPCASG IPIKKIGHRGVDSSGETTYRKT SSALKCAIQLCITHTVGSLDPTP ERHVLIEPLIELSSSGADGSLLI VSIHDEFIHKTVQHKQAEFLQKL IPGYHIDLNQNSWTLLPKFYGL CCVKAGGKNTQIAVMKNILLR LNSEGERILLCIGITDILQSYRFV KKLEHSWKALVCDGDTVSVHR PGFYTERFQCFMCNTAFKKIPA RTLTPNAGKDVEQQELSSLLM GMRSQTATVEDSLVVS YKTKH
4663	35031	A	4704	2	410	
4664	35032	A	4705	2	728	
4665	35033	A	4706	1	1208	MKMEKVNTSWLLPPSSISVLIR RGAGSMVLLLQSQRQYIFEYDS SDRLLAVTMPSPVARHSMSTHTS IGYIRNIYNPPESNASVIFDYS DGRILKTSFLGTGRQVFYKYGK LSKLSEIVYDSTAVTFGYDETT GVLKMNVLQSGGFSC TIRYRKI GPLVDKQIYRFSEEGMVNARFD YTYHDNSFRIASIKPVISETPLPV DLRYRYDEISGKVEHFIIITTAEM TLSKHFDTHGRIKEVLA/YEMF RSLMYWMTVQYDSMGRVIKR ELKLGPYANTTKYTYDYDGDG QLQSVACNDRPTWRYSYELNG NLHLLNPGNSVRLMPLRYDLR DRITRLGDVQY/KIDDDGYLCQ RGSDIFEYNFNGAPTKTLSQAS GILQSLQGLHEVHRNPACSDFA
4666	35034	A	4707	1	663	MMLLLLALLGAGLLGASLLTS WHAPARNKIPRAQKWREPD DPKPILELPLAELAQQLRTEELS LESILCSYLKQALKVHQEVNCL MDFLGECEEELQALKKLLKSE RGLLYGVPM SLKDTYDSMFLE KPATKDGVMKVLKAQGAIPFV KTNIPLTLRLSLKRASWALNAA TPIYGQMLSPLNLKKT CGGSS/G GDHGGWPHGPGRGEPGAVPCK



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4667	35035	A	4708	2	624	SDARLHKDDTDICFSKTLNSCK VPQIRYASVERLLERLTDLRFLS IDFLNTFLHTYRIFTTAAVVLGK LSDIYKRPFSTIPVARRARKLSLT SPLNSKIGALDLTTSSSPTTTTQ SPAASPPHTGQIPLDLRGLSS PEQSPGTQPEVSGSSPHSTAQSK IWSLVWKQYWLMAPSHALKT CHAARLARTFVTSSSATKVHCA ISLK
4668	35036	A	4709	1	195	
4669	35037	A	4710	1	1845	MAEAEPRPGERGGGGAGRAG GRPGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGKDLTVHLV IKTPQKAQDPAAA'TASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGSPSGTGE GSPSATASILSGFGGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNPFSSLAGNSDSSSSQPLR TENREPLRNP/WSPSPPTSQAPG SGGEGTGGSGTSQPGSGMFNS PEMQALLQQISENPQLMQNVIS APYMRSMMQTLAQNPDFAAQ MMVNVPLFAGNPQLQEQLRLQ LPVFLQQMQNPESLSILTNPRA MQALLQIQGLQTLQTEAPGL VPSLVSFMSRTPAPSAGSNAG STPEAPTSSPATPATSSPTGASST QQQLMQQMIQLLAGSGNSQVQ TSEVRFQQQLEQLNSMGFINRE ANLQALIAATGGDINAAIERLLGS
4670	35038	C	4711	59	464	

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4671	35039	A	4712	1	1902	MAEAEPGRPGERGGGGAGRAG GRPGGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGKIDGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGSPSGTGE GSPSATA SILSGFGGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNNPELMRQTMELARNPAV MQEMMRNQDRALS NLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLPNPWSPSPPTSQAPGS GGEGTGGSGTSQVHPTVLNPF INAASLRSGMFNSPEMQALLQQ ISENPQLMQNVISAPYMRSMM QTLAQNPDFAAQMMVNVPLFA G\NPQLQEQLRLQLPVFLQQMQ NPESLSILTNPRAMQALLQIQQ GLQTLQTEAPGLVPSLVSF GMS RTPAPSAGSNAGVYPPRPPLPHP ATPSHIFSNRG/SPAPQQQLMQQ MI\QLLAGSGNSQVQTPEVRFQ Q\QLEQLNSMGFINREANLQALI ATGGDINAAIERLLGSQLS
4672	35040	B	4713	309	527	

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4673	35041	A	4714	1111	2506	KKDQRETRNQKGLGFLRDRPQ WVSGMKMQECLQ/HWNAMAI NNHRAVAIFPKRRHGREDGLLS NLPTFGSYAPLRRVSNEFIASAV QRILLERRALPHGNCKLGGLTP QFMNRKNALVLEVLARAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKDLFKENYKPLLNEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFIWNQKRARIKSILS QKNKAGGITLPDFKLHYKATV TKTAWYWFQNTDIDQWNRTEP SEIMPHIYNLIFDNPEKNKQW GTDFLFNKWCWENWLAICRKL KLDPFLTPYTKIKSRWIKDINVR PKTIKALEENLGNTIQDIGMGK DFMSETPKAMTTKV KIDKWDL IKLKSF
4674	35042	A	4715	3	372	SVGVALRPWKRE/RAASERRSS SGGGGGGGGGGGGGGGGGSGS GQ/HAPAAPAGGIEAVNMASAS YHISNLLGVAAAAALAVTQALP PPSAVAGSFSAPKSPAHRSA GLPIPAEPLSSPLLQPPPP
4675	35043	A	4716	1	1008	
4676	35044	A	4717	1	2619	
4677	35045	A	4718	449	801	VLLSSMSRRKCQSLYVDLLM KKETE*SMEKEKLTMHPLSCTH I*PRQAPeADKQMR*TEEQN CRMMWQKKEKEHLNAKRS LAGSGWRDQPLDGKAPGEDH LPIPSPFQLPIHPI
4678	35046	A	4719	1	1255	
4679	35047	A	4720	2	843	CLHGFgyRIRDSELQKIHRAAV KGDAAGVERCLARRSGDL DALNK/TAQIAGAQPREEACTV ILLEHGTNPNLKDIYRNTAL HYAVYSESTSLAEKLFHFGAN IEALDKVLSISFLSKILMSS LKTCGRDAEDYTISHHLTKI QQILERKKKILKKEKRGKASE SEFLNSLGGPTLDDKKIRNVE ISDES AVSILHELCDLSPALD DEVLSVATKCVPEKVSEPLCR PSHEKGNRIVNGKGEGSEECL CPAAHRLRCGERLYLPPRLG CERLCLATTPEK
4680	35048	A	4721	295	1050	

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4681	35049	B	4722	306	554	
4682	35050	A	4723	2	7973	
4683	35051	A	4724	2	316	
4684	35052	A	4725	81	228	DPPLCLGLL\LRASIVQKRIIFY QDEGSLTKKLCEQGKTLKHSQ QMFFK
4685	35053	A	4726	1	1043	MELEWKVNVKVNSQDTNHHG SLQLARGEAAVVKFGRMSKKQ RDSLYAEVQKHQQRLQEQRQQ QSGEAEALARVYSSSISNGLSN LNNETSGTYANGHVIDLPKSEG YYNVDSGQSPDQSGLDMTGI KQIKQEPIDLTSPVNLFTYSSF NNGQLAPGITMTEIEIVAAEFK PLIYKQSFLTIVLSFGGGGSVIC GPTFAKVSSSRRIHHGDKIQPS INALGWTMEETPQIFKCRNT HGKELEHDLPEHSSGQGSTRRK SSCLRRDNNPMLLSGGRFYEKI HNFITGTDFVRKMEHAEGKTS LVHVGFAQIKMPSSLKQEASNG LIKLEEASGARMKTGHIK
4686	35054	A	4727	467	584	
4687	35055	A	4728	1	1794	
4688	35056	A	4729	110	1797	PSQQEPGSGTSCRLRYCWTAQTL PSVTMKLWVSALLMAWFGVLS CVQAEFFTSIGHMTDLIYAEKE LVQSLKEYILVEEAKLSKISW ANKMEALTSKSAADAEGYLAH PVNAYKLVKRLNTDWPALDL VLQDSAAGFIANLSVQRQFFPT DEDEIGAALKMRLQDITYRLD PGTISRGEPLPGTKYQAMLSVDD CFGMGRSAYNEGDIYHTVLW MEQVLKQLDAGEEATTTKSQV LDYLSYAVFQLGDLHRALELTR R\LLSLDPSHERAGGN/LCRYFE QLLEEEREKTLTNQTEA\ELTTP EGIYERPVDYLPERDVYESLCR GEGVKLT\PRRQKRLFCRYHHG NRAPQLLIAPFKEEDEWDSPHI VRYVDVMSDEEIERIKEIAKPK LARATVRDPK\TGVLTVASYRV SKSSWLEEDDDPVVARVNRMM QHITGLTVKTAELLQVANYGV GGQYEPHFDFSRNDERDTFKHL GTGNRVATFLNYMSDVEAGGA TVFPDLGAAIWPKKGTA\FWY NLLRSGEGDYRTRHAACPVLV GCKWVSNKWFHERGQEFLRPC
4689	35057	B	4730	1	2433	

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4690	35058	A	4731	425	1079	PMGTSFLYECANFQSVSLGDPQ EPSCLCGGQPQGAAGSSGSED ALLCLWDLQARKWKFEMSYTS GNIRGSSFCQFKSSFLVYFKALL KFRELFAQFKSFMGEKKLSLAP PMSDSSGDGIIRKIDYASCKRSG \\SSIRALPKTYQQP/EVLNDTWV SFPSWSEDSTFVSSKKTPEEQL HRCEDERFEEMKTAGFASFGER SKTGVPNLRVTDWYRLVAC
4691	35059	A	4732	3	425	GASSEEAEAGASEGP\\GAPGGWG APGSQGAQEGGDLQEAESQE GGDPRKPRSPRKVERHRKAGA PGRDLGRPSLTVLL\\NHCVLQR LRKIYHSSIKPLEQSYKYNELRQ HEITGQRCPCCEEPKPQHQUA LFVVVSENRI
4692	35060	B	4733	1	1056	
4693	35061	A	4734	171	511	LLSVRHVVRNTQETANDVQVW /LDREGGSKI\\NTGVCFLDHMLD QIATAVSRME\\INVKGDLIIDD HHTV\\EDTGL\\ALGEALKIAPGD KPGICRFGFVLP\\MDECL\\ACAL DISGGPH
4694	35062	A	4735	563	763	
4695	35063	A	4736	365	1644	RTSQMSSSAWRQQNRARPSSAI LPSSLSLGH PALPQFSQRM PAT ASQLPGMVGVLEGYGQTAASP GSVSSCSPACSSCCLGCWWPSS WPSCRLH PHLGRPIAHCLPE/VL TTTTTTPTITTSQAAGTPKGQQE SGVSPSPQSTCGLLSGPRGFFS SPNYPDPYPNTHCVWHIQVAT DHAIQLKIEALSIESVASCLFDR LELSPEPEGPLL RVCGRPVPP TL NTNASHLLVVFVSDSSVEGFGF HAWYQAMAPGRGSCAHDEF R CDQLICLLPDSVCDGFANCADG SDETNC SAKFSGCGGNLTGLQG TFSTPSYLQQYPHQLLCTWHIS VPAGHSIELQFHNFSLAQDEC KFDYVEVYETSSSGAFSLGRF CGAEP PPHLVSSH ELAVLFRT DHGISSGGFSATYLA FNATERL CLVESTSS
4696	35064	A	4737	1	154	

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4697	35065	A	4738	1	700	GSRPQFPFGHTRVRASGWRPCSL KPQLLGPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGH PETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AEIKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDF\GA \DAQGAMKQGP GSCFRKDNWP PTYKELGLSRAKPLAGFPTPNPS WAPGFKRERGLISV
4698	35066	A	4739	1	154	
4699	35067	A	4740	1	617	GSRPQFPFGHTRVRASGWRPCSL KPQLLGPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGH PETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AEIKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDF\GA \DAQGAM\NKALELFRKDMAS NYKELGFQG
4700	35068	C	4741	46	522	
4701	35069	A	4742	78	617	TKELLHSKRNCHQSEQATYKM GENFCNLLI*QSANIQNLQRT*T NLQEK NKQPHQKVGE GYEQTL LNRRSLCSQKTHEKILITGHQR NANQNHNEIPSHTS*NGNH*KV RKQQVSYKLL*MRPRRTRQVT Q*RREPETSLAKETPGNPTNTN AKFKTRGARISHYSSGNGERLP RTVC
4702	35070	B	4743	1	6477	
4703	35071	A	4744	1	623	MSSDISEVEDKNEFLT EQLSKP QIKFNTLKDKFLKTRDTLARKKS LALETVHNNLSQTQQQIKEMK EMYENAEAKENNSTGKWSCVE ERICQLQHENPCIEQQLDDVHQ KECLPSRKEKFKSEPPAFLSGN QVKSSSCSLQTLFPPDDLILYLE NPKDSTKKLLELINKFRVTGYK IKLQKSVAFLNDKNEQSKEENQ ECNPIYNNYK
4704	35072	A	4745	2	3272	
4705	35073	A	4746	1	579	
4706	35074	A	4747	3	510	

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4707	35075	A	4748	1	1261	MEAVDTFLVFNALNFLTTSQTT GCSSSCDPGHGLGQGSGNRFPI AAASARTAEEAKWFFSNKDYS NVLQLPDPKKTEYHIHEKRFS SRILCYYPEFGKVEEIIILTAMKH DWFGKHRKDDKIEKTGKIKIQE SFTSEEERIRMKQEQUERIQAKTR EFRE\RQARERDYAEIQDFHRTF GCDEL MYGGVSSYEGSMALN AR PQSPREGHMMDALYAQVK KPRNSKPSVDSKGVLG EADP VYPRRNP GTEGNASSLPSVSFSE SPPVRAAFAGYHYVAFPWLQK LMSGTSGKDPEKEADLARVVT LRVVT LR IETHVKTLAFTAALL QQLACIDVGMDKQNDVYTYN KILLSFKRKEILTHTTTRMSLED IILSEINQWQEDKYRFGLYEVA QVVKLIETESKVVVSRDGGRG
4708	35076	A	4749	10	2051	
4709	35077	A	4750	2	2118	
4710	35078	A	4751	1	658	MWNSKTLAAFRPCPKDPLNFE LERDNLAYLAEEIPKQSQIYIT WMILKAFSHMHLQRDNLKLLE MFKRKAKHKGLKNLHPDHVIE KKNLFSAEKFKPAAEIYISNEEP NVNSQDNGKKCLQGMSEIFAA APAITDNTSDKTTLIKVSSWPYI ADRRCP LVNVTREDSPEDPVF LRTLKGGDWFGKALQGWGL\K GIIHHVSAQEPVCLLLPFMTPR
4711	35079	B	4752	1	471	
4712	35080	A	4753	315	407	
4713	35081	A	4754	411	1042	
4714	35082	A	4755	1	423	
4715	35083	C	4756	202	321	
4716	35084	A	4757	5	413	CCCCFFETESHFVTQAGVQWR DLGSLQSPPPGFTPFSPQPPKE PGPQAPATTPGQSFAFLVEMGF HHVSQIEVSIS*PRDPPASASQS AGTTGVSHRAWTFCLRQSLA LSPDWSA VARSQLTATSASWV QVSRR
4717	35085	C	4758	150	491	

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4718	35086	A	4759	1	548	GIAFCLNLIKTLKLPNFKSCVIL LGLLLLYDV/FFVFITPFITKNGE SIMVELAAGPFGNNEKNDGNL VEATGQPSAPHEKLPVIRVPK LIYFSVMSVCLMPVSILGFGDII VPGLLIA YCRRFDVQTGSSYIY YVSSTVAYAIGMILTFVVLVLM KKGQPALLYLPCTLITASVVA
4719	35087	B	4760	642	1985	
4720	35088	A	4761	39	252	
4721	35089	A	4762	1	783	
4722	35090	C	4763	218	358	
4723	35091	B	4764	372	374	
4724	35092	B	4765	129	1036	
4725	35093	A	4766	1211	1983	SQSCLLLQEDFAPIAGEQEAEQ HQEDLRALLRASLQGQCSRQP GTRLHGSAPWPGEAQNRSLRP GDSPSLDRYRGI/SDAVGKSRSG DIGSSLRVEAGDKRTQASPERQ PHCGAHD AQDISGGREIFKPRQ LPGSAIWSIKVGHGSGFPGKRR PRGAGLSGRGGRGRSKLKSIG AVVLPGVSTADISSNKDDEENS VLD MVVLFSSDKFTLN/QVCG SFGQGAEGRLACSGCQCYH PYCVSIKMDACSSSELKY
4726	35094	A	4767	1	603	MANFND CVLDKEKV CIAAKFIT HAPAGEFNEVFSDIRLLCNDS LLRERAARAFAHYNMDQFTPV KMEGCEDQTIIACIESHECQPKN FWNGRWRSEWKFTITPPTAQV VGV LKIQVHYEDG SVQLVSH KDVQDSLTVSND AQTAKEFIKII ENAENEYQTAISENCQTMSDTT FKVLRRLQPVTRTKIDWNKILS YNI
4727	35095	A	4768	1	867	MADFDDRVSDEEKVRIA AKFIT HAPGEFNEVFNDVRLLLNND NLLREGAAHAF AQYNMDQFH AVKIEGYEDQVLITEHG\DLGN SRVLDPRNKISF\KFDHLRKEAS DPQPEEADGGLKSWRESCDSA LRA YVKDHYSNGFCTVYAKTI DGQQTIIACIESHQ\FQPKNFWN GR\WRSEWKVP\ITPPSAQ\VVG VLKIQVHYEDG NVQLVSHKD VQDSLTVSNEAQTAKEFIKIIIE NAENEYQTAICGNYQTMSDTT FKALRRQLPVTRTKIDWNKILS YKIGKEMQNA



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4728	35096	A	4769	2	690	WPSGSASRPRHLRAPEPVGKA GKNKGAGLTPA/AGTSGCAGR AESRGPPTGSHGSEPSRGSKGL CGRGTRSLPERGAEVLPHLPAQ TSPQLGSQGAWP/RHPRKPFRP AARAGTQPPGFVPSTPALLKVL YRSAHTQHSGRAAPEPSRLALG PTLQQRHMGHRRNLTFSSY NKKCGFGWAVEMRFSALLDVT TTPSRVAFWGSRGPPGLMERQL QLLSGYSPDGWLSTSM
4729	35097	A	4770	1	590	MDTRIGTTDTGTGKVEGARR MRLKKLPIEYYAYYLDDEIICTS NPCEFPGYGIEREYPCETSGPLE LTVQEDQGEEPQREELTRKKTS KVCRCGPLAWATGVKPCLKKK RRRRKEERRKKKEEGEGEGEEE EEEEEEEEEEEEEEEEEEEEEE EE/EEEEEEEEEEEEEEEEEEEE EEEEESDPCTSWNTSQP
4730	35098	A	4771	1	288	
4731	35099	A	4772	1	237	MRSSVIGPRSHIPSQRKSGIQEE EEEEEQEEEEEEEEEE/EEEEEE EEEEEEEEEEKGLLDQEAARHLV LPAATQCKPKM
4732	35100	A	4773	1	794	MASHSSPMGSQYYYGFPGPDS AMHALNTVVSEKDLTDLGL VARNKRCGPHSYSLNTHLLHA CLRLPTQRENTTLKTFIPQGWEI HTDQVEREAECQPGRLKICVHD TAQELPLASTARNALLGRNLCP FRQSSTTQMPDEIPISLDDMRP PSLKKKK/VVGEEEEEEEE\EKKE EEEEEE/DEEEEEEEEEEEEEEE EEEEEEEEEGGGGGVGEDEEEE EEGEDEGGGGEEDEEEE*EEEE EQKKKEKKKKEQEEGGGEGG
4733	35101	A	4774	115	341	
4734	35102	A	4775	1	651	
4735	35103	A	4776	189	618	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISFAHHE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNFI YIIFSKMPTKVPSLWDSKLGAE QAAPEENNKKKEQEEYQGKSF SFLNLTECWP
4736	35104	A	4777	1	414	

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4737	35105	A	4778	189	692	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISF\HHE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNF IYIIFSKMPTKAMSISSMFKFAT KIRMTVTPNPKCCWIPVFPAYL STSKAAKCMHHTAHHGQEKSD HCISPSPIPAP
4738	35106	A	4779	2	3815	
4739	35107	A	4780	957	1493	KNRNYNKLRLRPQCNPTRTQD* ETHSKPLNYMETEQSP*LLG T*RNEGRHKAVL*NQ*EKRHNI PESLGH/ AKQCVEGNL*H*MPT RESRKDLKLTP*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKTNKEEKREESNRRN KKC
4740	35108	A	4781	1	4962	
4741	35109	A	4782	2421	3011	NQACQPGQAGAARAGQCFPRV AQRPGPGPAGMALAHPDLYLC HSAGDQCR*DEEADPPEGQAPT HFQVHPAGGLHLLDRLAAPQH QAGTQGGQGPGRHH*PAARSS PVEPPSTGSPSRPTTTMWPSCSR RQGGLGPGL*CVQQPHLLDAP GTLPLVGLALVCRLQPWRCLPL GGGGGVGGSQRPFGGGGNG GRNWG
4742	35110	A	4783	1	932	MRTPKSSIKPSLGEEKENYRGS LKETAPSLQKEWAEQSSKSQET VGVKGITRHFQVSTLLERREDR KSKEPPLLIPRQTVSGVDLQQT TDLQLSVLTVRRKTNKQKGHP HQPICSTSPSSNTKVKNLEKQL DEWLTRITNAEKSSKDRMELKT KARELHDECTSLSSRCQLEER VSVTEDEMNMKRGKFKREKR IKRNEQSLQEIWDYVKRPNLCL IGVPESDGENGTKLENTLQDIIQ ENFPNLARQANIQEI/RENAT KILLEKSNSKTHNCQIHQS*NEG KNVKGQSQRERSGYPQREAHQT
4743	35111	A	4784	477	638	LLCCGFELPLLARRSLIV*SLLLS THQSHSPSSFVPLLVRSCIPLEEE RRSDF
4744	35112	B	4785	1	1509	

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4745	35113	A	4786	3	832	ERHHPPPQAGPHPPRRRKERNTHRQPTPQPHGA/WKISVPQT'IN KGISSITSTQRNQPPQATTVEKA HNESTRTPPEPKGAVRGTR*KK KKTSRDTPPQTP*EKSSSATRNK AGGKDSKREKATEDQTTPS KRRKLHPMAKKLKLKKN*MN G*LE*PMQRSP*RT*WS*KPRHE NYVMNAQASVTDAINWKKGPP PRPTTNDKIVTRPTHPTCSHH RPPRKPPRTHPTPTPTQNKISQ* NGYTPPRGKRVREDRCKPPQAP TSAPRAAKQRQS
4746	35114	B	4787	1580	4673	
4747	35115	A	4788	1	462	MKLEHQEAQRRSGQGREKRR WPEGKAGPGCEGAWILCPESQ DDSKQEGDNNMIVVSRNAVRS VKAEFQGDNLNESCSEAIIV QGRDNGVPHKAHGLGTEEGT VLKISERQNWLDLVDFILLGGD LFHENKPSRKTHTCLELLRKY CMGDRPVQFEILSDQSVNFGFR KLTNRKDIHTKNPSVRHHHQR KVDETIKMGKTQSRKTRNSKN QSTSPPKERSSSPAIEQSWMEN DFDELKEEGFRSNYSELKEEV RTNGKEVKNLEKKLDKWITRIT NAEKSLKDLMEKLTIAQELRDE CTSLSNQCDQLEERVSVMEDQ MNEMKREEKFREKRIKRNEQS LQEIWDYVKRPNLCLIGVPESD GENGTKLENTLQDIIQVNFNL ARQANIQEIQRMPQRYSLRR ETPRHIIVRFTKVEMKEKMLRT AREKGLECSGAGLAHCKLWLL GPSDPPDCSSVSPVLRVHLVLP SLPHSVGTPLGVSIPPSVPRFP DRVFHPPYPYTHYCDNLKTCHT SHGSVMAETA VINHKKRKN RIVQSNDL TEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY

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4748	35116	A	4789	1314	2221	KNRNYNKLRLRPQCNPTRTQD* ETHSKPLNYMETEQSPPE*LI.G T*RNAEGRHKAVL*NQ*EKRHNI PESLGHI/AKQCVEGNL*H*MPT RESRKDLKLTP*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKT/IQRRKERRIK*TQ* KMLKEDITTDPTIETIIREYYK HLYAHNLENLEEMDKFLDTYT LPRLNQEEAESLNRPTNSEIET VINSLKEKAQDQKDLQLNSTRA LFTIAKAWNQPKCPSMTDEIK/I NVEHIIHGILCSHQKE
4749	35117	A	4790	2	2260	TKDKNHMIIISIDGGKAFFDKIQQ PFMLKTLNKLIGDGTYLKRIRAI FDKPTANIILNGQKLEAFPLKTG TRQGCPLSPLLFNIVLEVLARVI RQEKEIKGIQFGKEEVKLSLFA DDMTVYLENPIFSAQNLLKLIS NFSNVSGYKINVQKSQAFLYT NSQIMSELPFTIATKRITYLGIQL ARDVKDLFKENYKPLLNEIKED TNKWKNI PCSQIGRILWPYCPR QEDENFNSLLQNGDILNSSTEE KFKAHDKKDFNLPEYDLNVEE RLVLEKSVSDSTATADDTKLD HINMNLNKLITNDTFQPEIMERS KTQDIVLGTSFSLINSKEETEHL ENGKYPNLESVNKVNGHSEE TSQSPNRTEPHSDSCSVDLGISK STEDLSPQKSGPVGSVVKSHSIT NMEIGGLKIYDILSDNGPQQPST TVKITSADVKGKIVRSKSATLL YDQPLQVFTGSSSSDLISGTKA IFKFDSNHNPEEPNIIRGPTSGPQ SAPQIYGPQYNIQYSSSAVK DTLWHSKQNPQIDHASFPPLI PRSESTENQSYAKHSANMNFN HNNVRANTAYHLHQRLGPARH GEMWAISPNDRLIPAVTRSTIQR QSSVSSTASVNLGDPGSTRRAQ IPEGDYLSYREFHSAGRTPPMM PGSQRPLSARTYSIDGPNASRPQ SARPSINEIPERTMSVSDFNYSR TSPSKRPNARVGSEHSLDPPG
4750	35118	A	4791	1516	1729	ILAPHSLACRVSASERSAVSPM GFPLWVTQPFSLAALN/DFFLHF NFG/RJ*QLCVLELLFSRSIVVAF SEFP

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4751	35119	A	4792	3	1426	RRYDELQNSSGRDGKPRAMAV TRSTSSTSSGSNSNVLVPVSWK RPQYSQKRAKEKLVHVLSCG QEVGLSKNPSVIFSSCGDLLE HQTSLVSSDGAREQENMDDT NSEQQFRVFRDFDLDVELEDG EELQGESMDNFWGVRRLSLD SLDKCDMQILEERQLSGSTPSL NKMHHEDFDESSEEDLTASQI LEHSDLIMTLSPSEETNPMELLT TACDSTPPEPHSFNTRMSSFDAS LPDMNNLQISEGSKA\EA VREE EDTTVHEDDLSSSINELPAAFEC SDSFSLDMTEGEEKGNRALDQF TLASFGEGRGVSPPPSPFFSAI LAAFQPAACDDAEEAWRSHIN QLMCDSDGSCAVYTFHVFSOLF KNIQKRFCFLTCDAAASYLGDNL RGIGSKFVSSSQMLTSCSLDKL KFSVLELQEYLDTYNNRKEATL SWLANCKATFAGGSRDGVITC QPGDSEEKVIKAC
4752	35120	C	4793	60	164	
4753	35121	B	4794	44	2547	
4754	35122	A	4795	401	9546	PRADITTCDRRITPGTCSRPLPV LPASLYAADMASQQDSGFFEISI KYLKSWSNTPVGNKYIKPPV PPASGTHREKGPPTMLPINVDP DSKPGEYVLKSLFVNFTTQAER KIRIIMAEPLKPLTKSLQRGED PQFDQVISSMSSLSEYCLPSILRT LFDWYKRQNGIEDESHEYRPR SNKSKSDEQQRDYLMEERDLAI DFIFSLVLIEVLKQIPLHPVIDSLI HDVINLAFKHFKYKEGYLGPNT GNMHI
4755	35123	A	4796	2	6107	GERKPKIDLFRTCVAAIPRLLPD GMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRED VLFGFTNLLREVNDMHHTLL DSSLKLLLQLLTQWKLVIQTQG KVYEQANKIRNSEARDLELDV GVDVDVGVDVDADVDVDVDL GVDVDVGVDVDADVDVDVD MGVDVDVDRIYGFCKCGCDR DVDRVVDVDVIDVDVDVDM DVNIDVDVGLGAGVDVDMDV HIDMDMDVDIGSDNILQSALRR

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4756	35124	A	4797	3	565	MLPGHLFCLAKAGKEEQEEKG QIIIRKTIPTQNIIPGGAHITATH RGRCTVATKFSGGLCKEPNRLT WY/GPPLKGAHGGR/GPSSRVPS FPAAGQPPIGGALHGAGSRGLA RTRAQLGGPPGGELRGT/SGNG DGQGPDGDSRKSGLRPSHL/P DPAAVAGAPVSGHLQTPGHHA GRRQQAGPRGAGLP
4757	35125	A	4798	1	417	
4758	35126	A	4799	1	1069	MPRPPVPANALGARGEAVRLQ LQGEELRLQE\ESVRLHQINIYL SDRISLHRRLPVRWNPLCKEKK YDYDNLPRTS\VTKAFYNEAWS TLLRTVYSVLETSPDILLEEVIL VDDYSDREHLKERLANELSGLP KVRLIRANKREG\LVARLLGA SAARGDVLTFDCHCECEGW LEPLLQRIHEEESA\VCVTDVI DWNTFEYLGNSGEPQIGGFDW RLVF\RWHTVPERERIRMQSPV DVIRSPTMAGGLFAVSKKYFEY LGSYDTGMEVWGGENLEFSFRI WQCGGVLETHPCSHVGHVFPK QAPYSRNKALANSVRAAEVW MDEFKELYHNRNPRARLGLAC DECSIKAGWWL
4759	35127	A	4800	1	1152	MHNSDGIEVMRQKAEIGRVG GLEGIQLGVTEVIVNGARMLES YNCKAELGATGLVNYQISVKC SNQFKLEVYLLNAENKVVDNQ AGTQGQLKVLGTNLWWPYLM HEHPAYLYSWEGRPDGAQAVG ALTPGTLA\EVWLTAQKSLGP/ SDFYTLPVGLRTVA\TESQFLIS GKPFYFHGVNKHEDADIQGGK FNWPLLVKDFNLLCWLGANTF CTSHYPYTEEMLQICYRYGIVVI DECPAPSGHTGPSVPSLLARW QLFNNVSMHHHMWVVEEPVL RDKNHPAMVMWSLAKEPASFL ESAGYSFKSLTMEQTARVLDLD TGEAVLQYRSLPRGAHKTGK KRKISSYNVDLTSCQLAKEKCL KGPSSFLQSRQERMNSELRDN
4760	35128	A	4801	293	535	
4761	35129	A	4802	94	686	
4762	35130	B	4803	1	2187	

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4763	35131	A	4804	596	1789	MFHVIERPYECKECGKNFRSGY QLTLHQRFHTGIHKGGKPYEC KECKKTFTLYRNLTRHQNIHTG EKLFECKQCGKTYTTGSKLFQH QKTHTGEKPYECKECGKAFSL YGYLKQHQKIHTGMKHFECKE CKKTFTLYRNLTRHQNIHTGKK LFECQECGKAYSTGSNLIQHRK THTGEKPYKCKECGKTFSLHG YLNQHQKIHTGVKPYECKKIHT GGKPYECKECGKAFSRASNLV QHERIHTGEKPYVCKQCGKTRF YGSALKAHQRIHRSIKVNQWL DSPRHKSINCDPMSPRTRKTRE RSHVSGRSLCQRLLGQGAQLRE FKQPPNRFRFVCGLVARNTFP RGLRGRRASRRNAAASRLEDA VAELLKARCSALGGSGLPEGLS
4764	35132	A	4805	2	489	CQGEKAKWEQGMTGRRWVVG PPASSTPPHS/HFWLLVLSRGLV GIGEASYSTIAPTIIGDLFTKNTR TLMLSVFYFAIPLGSGLG YITGS SVKQAAGDWHCALRESFLQLV RLKVTLLQLQLLYPTNGK RQDTNHTRSQCAHYLPHLDFQ VALCAYAVLQC
4765	35133	A	4806	1	327	
4766	35134	A	4807	899	1219	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFGCSISS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS
4767	35135	A	4808	2152	2633	SRLDCGQGLVNGSCDYHHGCT GDTPRRPEWHRSLAHCMSPVD SLPGCAVSGSSDPWEVSWLWQ Q/VDRCNREE/VMW*QRLGFP SPTVSFPQRAVSASKPLQ*APS WISLHSTLSQCRASDLRGRHTV PEVVYEWSPCALPTHREHPNAI MEGWPPQAWWA
4768	35136	A	4809	2	387	SNASVILEGEDLRFCSVRMAG RLQGRFSVIWQLVDRQNRRSDI MWLDR/DGTVQPGSSYWERSSF GSVQMEQVQPNFSLSLGFNSRK EDEGQYECVTEWVRVVDGE WQIVGERRASTPISIALGE

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4769	35137	A	4810	46	3753	EIRSWEKRRKRLVLCLEAADM KCFFPVLSCLAVLGVVSAQRQV TVQEGPLYRTEGSHITIWCNVS GYQGPSEQNFQWSIYLPSSPER EVQIVSTMDSSFPYAIYTQVR GGKIFIERVQGNSTLLHITDLQA RDAGEYECHTPSTDKQYFGSYS AKMNLVVIPDSLQTTAMPQTL HRVEQDPLELTCEVASETIQHS HLSVAWLRQKVGEKPVEVISLS RDFMLHSSEYAQRQSLGEVRL DKLGRTTFRLTIFH
4770	35138	A	4811	1	3728	MKCFFPVLSCLAVLGVVSAQR QVTVQEGPLYRTEGSHITIWCN VSGYQGPSEQNFQWSIYLPSSP EREVQIVSTMDSSFPYAIYTQR VRGGKIFIERVQGNSTLLHITDL QARDAGEYECHTPSTDKQYFG SYSAKMNLVVIPDSLQTTAMPQ TLHRVEQDPLELTCEVASETIQ HSHLSVAWLRQKVGEKPVEVIS LSRDFMLHSSEYAQRQSLGEV RLDKLGRTTFRLTIFHLQPSDQ GEFYCEAAEWIQDP
4771	35139	A	4812	897	1217	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCSISS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS



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4772	35140	A	4813	1	1507	MWNSKINHDDQFLKTYVLE ESSISVGVASNASVILEGDDLRF SCSVRMAGRPQGRFSVIWQLV DRQNCRSNIMWLDRDGTVPQPG SSYWERSFSGSVQMEVQVPNSF SLGIFNSRKEDEGQYECHVTEW VRVVDGEWQIVGERRASTPISII ALEMGFAVTAISRTPGVYSDS FDLQCIKPHYPAQVPVSVTWR FQPVGTVEFHDLVTFTRDGGV QWGDRSSSFRTTATEKAESSN NVRLIISRASDTEAGKYQCVAE LWWKNYNNTWTQLAERTSNL LVIRVLQPD RMGVSARALRGEP SPSQMPQACCHGNTGALVIGIN EPESLPCLQTVTKLQVSKSKRT LTLVENKPIQLNCSVKSQTSQN SHFAVLWYVHKPSDANGKLIL KTHNSAFEYGTVEEEGLRAR LQFERHVSGDLFSLTVQRAEWL LSPNYAWYKLAEVSGRTEVT VKQPGGSLGLGC\SVSGWAAEP VCTQGPRPCSWNTPLALTAAC
4773	35141	A	4814	1	627	
4774	35142	A	4815	166	435	
4775	35143	B	4816	1	240	
4776	35144	A	4817	1	288	VVPASSPGAASEPRRRRCLQP EKSVPSPGSGGGHRDPPKARPPR PPSAPKP*RPRPFS*LARSLCFPA AGCAYGVGVGGAGGGGRAGLR QPVPAVAE
4777	35145	A	4818	206	1041	VSVGSAPSDMPAAATRW/CNSR CQHGRQLSAR/PVAGPGT/RTSS FPWLAPRNVVVPGSLEMPGTA GPQRGSHSSPQGSSALLSFS/CV HNVESKEPVCLLLPSMASRLLT PRGTCTRPVPGCLQHPLSLPPVL VGTQSPSQAPKSAKRPSQPQL GWLQLHPGGSLCLLPAPAGS MECAALESVPSQLGIGAPGPCW AQAGVQGWNSVATSSPSGPSA QGQPRAPPCLVCGPAQCGTSGS RSRATGLRPSCLECQVWWSPQ CGANPGDTTSSQDAGTRCSKV
4778	35146	A	4819	2	487	

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4779	35147	A	4820	152	758	RGARGPEWDGQLDGPQSQMC GMASAPRLRRSGVRAAAGHPV QQPRLLDGLSLTDESDSCVSFEP PSHPSSSSGPVTALSRGWNFLK AFPLMGETQERER/VLTHFSRR YCQCNPD/AQPSEDGIH/TLTCA LMLLNTDLHGHVIGEVGTGETN RTDKQQNRTEQSKRQANADKH NEHANNEQQHEHDKDNDTRTR DTEMRHAKRDNA
4780	35148	A	4821	100	220	
4781	35149	A	4822	100	1588	CLKISTGYTGSMEEASGNLTI MAEGEGEAGTSTHGQSRKRE KEEVLHPFKQPDVRSYRENS KEEICPHDSVTSCQTPPPTLGITI RHEIAASICHVADTAGVAGDA MMRKTDLIPFIGLTLQGGRSA DMGNQKKWRKGSNLATLVA MASERFWQYSGNSTIQPKQK QHGMITRLVTAPVCPGLVQPSL CAVGLRNIMSLSSHTCALQNTK QAWEGYDDCHSQRVSQPGEN MTKLSFLNLLNQMPSWGEGKM VPADFSGSCWEGTGTGSPAGSQ VSFLNRHNDGQLAGDSPGLPPP PCPRGLQGAEQRSALRRHKAD VHRDQWLVISFSKKLRTSARK WYEAGPFSGVPRVLPAAQGG TDFPFSPSEEPFQSPFSMVQAH TVRSKPQFHFPAAAGENCLNRSE LSRNQGLQARVGPLAINSSDPS GDFVLYTPTILGFVGLVLSR EGTFLWRYSTCP/LNYKLWLPP GYLGLLVPKDQKVRAVFLGM
4782	35150	A	4823	1329	1881	AHLEAAGWSSSVQPGSPRVLG RAEEHGQQSGRAKEIGHKIPKE TFDELTALETISSK\CLYLAKK NQVIQQELLSMKEVQKCKKL EEVNKILEQEVVNLKTHEKNM VEFGDVEECKLQLEERAGQEIE KLEEINLQRACLSAKKVRAEGE LEPRRHHNHTLGFTGEPWGLM SVITGAYDLIR
4783	35151	A	4824	176	308	LGNLTSPFFN*KHRSTKGFTTLS TVALLLTGHVGIKTSNCHPGY

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4784	35152	A	4825	1467	1890	DWFDELTALETISSK\CLYLAK KNQVIQQELLSMKEVQQKCKK LEEVNKILEQEVVNLKTHEKN MVEFGDVEECKLQLEERAGQEI EKLEEINLQRACLSAKKVRAEG ELEPRRHHNHTLGFTGEPWGL MSVITGAYDLIR
4785	35153	B	4826	1	753	
4786	35154	A	4827	225	410	
4787	35155	A	4828	225	410	
4788	35156	A	4829	225	411	
4789	35157	A	4830	141	1001	GGVRGVQQKETCAFKVLESIG KLG\LALSVAGGAENSALYNVD AGHRAVIFDRFRGEQDIVVGG THFLIPWVQK/PPIIFDCRSRPRN\ VPVITGSKDLQNVNITLRILF\RP VASQLPRIFTSIGEDYDERVLPSI TT\ENLKS\VPFDAGELITQRE L\SRQ\ASDDL\TERAATFGLIL DDVSLTHLTFGKEFTEAVEAKQ VAQQEAQRARFVVEKAEQKK AAIISAEGDSKAAELIANSLATA GDGLIELRKLEAAEDIAYQLSR SRNITYLPTG\QSVLLQLPQ
4790	35158	A	4831	194	453	QPLPEPLELRPKAL*LTSPQIFSA *RLKTAARLPRKPWAVLPQGFT DTPPHFSQAQISSSVTYLSIILV KTHVLCSPFHRTGVV
4791	35159	A	4832	1	86	PCESYLEHL*WSCRLRLRLGVS SLQLLS
4792	35160	C	4833	191	263	
4793	35161	B	4834	1	741	
4794	35162	A	4835	3	96	
4795	35163	A	4836	1	301	QEQQKMNTLQGPVSFKDVAVD FTQEEWRQLDPDEKITYGDVM LENYSHLVSLAYEVATSEIL KPSNLPKSFFFSH*QDMISPSQT SSLSWSRERSCG
4796	35164	A	4837	3	273	VLHFISAGNTFAHQQEHSPRKG PNNLSKRKLLPAV\GPRVFHGE DRHL/LFSTRKE*ARSLCYVQG GVQAPAAAFCSLLSLWGWAGC AFWC

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4797	35165	A	4838	3062	3688	RSVTRAPPRSTFPLAQAPSPRSH HIREPTPSPHLGPLRGSHRGPPS RPLPPALAALSLLLETLPRLHP HLHLALHDQGRACVRAAHPS YLWRCHALGVWVES/ARLRPS ALPPAHSPPLAAPLLSSSVQPPA PALEPPPRPPAAGAAARCLAAQ HHHPSRLGVRQPPLAVGALGST WPPQAPAPPPPELSALEQDRVGA QPPPPPSQGA
4798	35166	A	4839	1	197	
4799	35167	C	4840	26	358	
4800	35168	A	4841	84	433	PASAPLGLSATVSACFQEQQKM NTLQGPVSFKDVAVDFTQEEW RQLDPDEKITYGDVMLENYSH LVSLAYEVATSCTSEILKPSNLP KSFFFSH*QDMISPSQTSSLWS RERSCG
4801	35169	A	4842	1	372	VQWLFMQICLGGKHQQLRHQG VQEKMLPLEGS*VIEAGSPTLIG ETLSLEIINYIIGAGLESVHTKS RQLGGWTRPGSHFQQVLIPAHT PMNLEPSQLSLEPRLVPAQQSL PSAPTPSKALSQ
4802	35170	B	4843	7	267	
4803	35171	B	4844	213	3895	
4804	35172	C	4845	141	359	

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4805	35173	A	4846	831	3017	RRRLHYSGSTRPWRTRAMLPR TSLRPHLSLSLHLPCLLLHL\ LPTHLP PGPKHQPTVREL/ARRC RLPRACHPAQNLLEQQPLRPSH LQRH/LSLLPPLGLSQSGPPG/LA PQPLL*LQTPDHFAGADPCSIHG TSH*HQGTSNPSGRDGYQTPSH ICP\SPAPKQSFLFGTQNTSPSSP AAPAASSAPPMFKPIFTAPPKSE KEGPTPPGPSVTATAPSSSSLPT TTSTTAPTFQPVFSSMGPPASVP LPAPFFKQTTTTPATAPTTTAPLF TGLASATSAVAPITSASPSTDSA SKPAFGFGINSVSSSSVSTTTST ATAASQPFLFGAPQASAASFTP AMGSIFQFGKPPALPTTTTVTTF SQSLHTAVPTATSSSAADFSGF GSTLATSAPATSSQPTLTFSNTS TPTFNIPFGSSAKSPLPSYPGAN PQPAFGAAEGQPPGA AKPALAP SFGSSFTFGNSAAPAPATAPTPA PASTIKIVPAHVPTPIQPTFGGAT HSAFGLKATASAFGAPASSQPA FGGSTAVFSFGAATSSGFGATT QTASSGSSSVFGSTTPSPFTFG GSAAPAGSGSFGINVATPGSSA TTGAFSFGAGQSGSTATSTPFT GGLGQNALGTTGQSTPFAFNV GSTTESKPVFGGTATPTFGQNT PAPGVGTSGSSL SFGASSAPAQ GFVGVAPFGNTFAHQQEHSR KGPNNLSKRKLLPAVRAQGPPR
4806	35174	A	4847	9	935	IPCFGCAMPYQTRRQENDLR TASIAV*RRKQQDDH*KQRRW QNIQRKGPKRYIVIAGNSQSHQ PMIFSMLRKLPKVTCDVLPEIR AICIEEIGCWMQSYSTSFLTDSY LKYIGWTLHDKHREVRVKCVK ALKGLYGNRDLTARLELFTGRF KDW MVSMIMDREYSVAVEAV\ RLLILILKINMEGV LMDVDCES VYPIV*ASN*ALASAVGEFLYW KLFYPECEIRTMGGREQRQSPG AQRTFFQLLSFFVESKSHFVTQ GGSGQFSAHRNLCLPGSGNFH VSASRVAGIAGAPPHTWLIYVF
4807	35175	A	4848	1	1749	
4808	35176	B	4849	282	1227	

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4809	35177	A	4850	221	907	FEDSFNRGVKKKAAKRPLKTP VAKYPKKGSQAVHRHSRKQSE PPANDIFNAAKAAKSDMQHRE VRVKCVKALKGLYGNRDLTAR LELFTGRFKDWMVSMIMDRE YSVAVEAVRLLILILKNMEGV MDVDCESVYPIVLFYPECEIRT MGGREQRQSPGAQRTFFQLLS FFVESKLHDHAAYLVDNLWDC AGTQLKDWEGLTSLLEKDQS TCHMEPGPGTFHLLG
4810	35178	B	4851	1	2361	
4811	35179	B	4852	1	878	
4812	35180	A	4853	1	313	MPHTPRCLFRPQASCLVHFLEQ QNKLLKETKLQFFQNRECKSNL EPLFEGYTLRREAECMEANS RLASELNHVQEVLEGYKKKYE EEVALKATAENEFVALKK
4813	35181	A	4854	188	354	
4814	35182	A	4855	405	647	LPLISDQVSYSPPLMSKSLASLY QESY*TILARIPLPLISPFVNSLST DLFILLIGNTSIAIFAEFGVSAISL PSCNSLE
4815	35183	A	4856	1	585	MSSGEGKRTWLGSLWGGVRVP VPPPICGLRVAVTSAGTSSFSLA PKPTRIRGERGKGQGRG/SSGN GGRGRAGASAGGSRGEVVSVA NDGRWRGRGRGVGCPRSSKRE DNRFAKHGRASGKAWEPPPS QALRALFGPIRRRGRAAETRIV YWIKDRQLTNRDSTILELQKVL KTCCAQSMKIFCCLWNFVYKQ
4816	35184	C	4857	12	468	
4817	35185	A	4858	1	1156	MAFRKKIITAGCIDHVLVSDDS QQMQANLTQRTEAEIRKQTQIA PTFPAHSLPKYLGFALLNRKII GTFLVFNMCKRNHEDKNEAFT VLREKKVFNLEFCTLQNYSSSEV KEKERQRFSDKQTLREFATRK ALKEMLKVLQRYKERKHIRKR NVKYSADHTTDHTANQADPNQ QEPHVPGHAPDNKTIRQKQ HKDNTTRKHQMTSDTSRTNT KVSGQPRGKQTRRRHERQQA RERGQHRQK/RDAQTREHTQR QRQARAEQVIENKREEKRTS ERTNDSTRREGTRRPRRTEKGE RQEEGDRATATHRKDHDRQQP HGAPHCSRSSRHGAPTGPLYCC SPLPGTPSCTICTVQYGRWPH MATEQLNMAGPNQDFQDVVW

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4818	35186	A	4859	1	1580	MAPALLLLLLASGAAACPLPCV CQNLSESLSTLCAHRGLIFVPP NVDRTVELRLADNFIQALGPP DFRNMGTGLVDLTLSRNAITRIG ARAFGDLESRLSLHLDGNQAG GAGHPRALRGPVNLQHLILSGN QLGRIAPGAFDDFLESLEDLDS YNNLRQVPWAGIGAMPALHTL NLDHNLIDALPPGAFAQLGQLS RLDLTSNRLATLAPDPLFSRGR DAEASPAPLVLSFSGNPLHCNC ELLWLRRRLARPDDLETASPPG LAGRYFWAVPEGEFSCEPLIA RHTQRLWVLEGQRATLRCRAL GDPAPTMHWVGPDDRVLGNSS RARAFPNGTLEIGVTGAGDAG GYTCIATNPAGEATARVELRVL ALPHGGNSSAEGGRPGRPTSP PLALLPRYNSEDETLYRIVPA SSHFLKHLVPGADYDLCILA LSPAAGPSDLTATRLGCAHFS TLPASPLCHALQAHVLGGTLTV AVGGVLVAALLVFTVALLVRG RGAGNGRLPLKLSHVQSQTNA
4819	35187	A	4860	2	403	
4820	35188	A	4861	87	442	PVFPWHPYSKDQKEESQSVLVI WQKTAGGGWSTWWILSFSPET EKVVKK/AHVDTL*NEMWDVT K*TAFKIPSCT*HQQHP*SFFRK SESQVIVFAGQGVKIH*YILLHS NVIHYMNEI
4821	35189	A	4862	2	651	EFIKQWDADKFEHIQTLEGHHQ EIWCLAVSPSGDYVVSSSHDKS LRLWERTREPLILEEREMERE AEYEESVAKEDQPA\VPGEIQG D\SYFT*KKTIETVK\AAERIMEA FELYREETAKMKEHKAICKAA GKEVPLPSNPILMAYGSISPSAY VLEIFKGISSELEESLLVLPFSY VPDILKLFNEFIQLGSDVELICR CLFFLLRIHFGQITS

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4822	35190	A	4863	1	703	MGLTKQYLRYVASAVFGVIGS QKGNIVFVTLRGEKGRYVAVP ACEHVFIWDLRKGEKGLKQEV TCLCPSPDGLHLAVGYEDGSIRI FSLLSGEGNVTFNGHKA AITTL KYDQLGGRLASGSK/RQPGGIV FTESILAYSSACQDKQNHYWGS SQ*CADFVIQLRQYCCSFSCS*F H*NMEQVYTAVYSHNDL*ICTL LILCTW**TGS HRNKAPKTMFP RCTEGLDRGNRPATHS
4823	35191	B	4864	1	2616	
4824	35192	A	4865	3	674	PECTGRTLRSASQQHDTFYILA CELNSLADDAQR\YDVP\NSCL YPPDLWP RPVMQAKKKELARR DDIEDGDSMISSATSDTGS AKR KSKKNIRKQRMKILFNVVLEAR EPGSGRRLCDLFMVKPSKKDYP DYYIIILEPMDLKII EHNIRNDKY AGEEGMIEDMKLMFRNARHYN EEGSQVYNDAHILEKLLKEKRK ELGPLPDDDDMASPKLKLSKA ASHFII
4825	35193	A	4866	3	425	
4826	35194	A	4867	1	1115	LCSVPTLCLASSHLVSNLSTFKQ VTSSFIRHV VATLLGLYLALFCF GWYALHFLVQSGISYCI MIIGV ENMHNYCFVFALGYLTVCQVT RVYIFDYGQYSADFS GPMMIIT QKITSLACEIHDGMFRKDEELT SSQRDLAVRRMP SLLEYLSYNC NFMGILAGPLCSYKDYITFIEGR SYHITQSGENGKEETQYERTEP SPNTAVVQKLLVCGLALLFHLT ICTTLPVEYNIDEHFQATASWPT KIIYLYISLLAARPKYYFAWTLG TAPRKWSPCPGPQCIQLRAADP SGPEPLMLSSQERQPKAKPPK EAHADIAGTPREGEKTRTGGPG KAFLRDPGASSSVELSRTQLWV LTPPIAKAPCECLQ
4827	35195	B	4868	218	656	
4828	35196	A	4869	1	180	
4829	35197	A	4870	12	199	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS



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4830	35198	A	4871	1	5058	MKLRGVSLAAGLFLALSLWG QPAEAAACYGCSPGSKCDCSGI KGEKGERGFPGLEGHPGLPGFP GPEGPPGPRGQKGGDGIPGPPG PKGIRGPPGLPGFPGTGLPGMP GHDGAPGPQGI PCNGTKGER GFPGPSGFPG LQGPPGPPGIPGM KGEPGSIIMSSLPGPKGNPGYPG PPGIQGLPGPTGIPGPIGPPGPPG LMGPPGPPGLPGPKGNMGLNF QGPKEKGEQGLQGPPGPPGQI SEQKRPIDVEF
4831	35199	A	4872	3	1646	EDEGRAKGHHTWQQTRENESQ AKGETPYKTIRFRETY YHKNSM GETTPMIQLSPTGSLPQHVGIM GATIQDKIWVTPGLPGFPGTPG LPVKRGFPGSPGFPG LQGPPVIP GPTGIPGPIGPPGPPGLMVTGP PGLPGPKVNMGLNFQGPKEK VKQGLQGPPGPPGQISEQKRPID VEFQKGDQVIPGDRGPPGPPGI RGPPVTPGGEKGEKGEQGEPPG KRVKPGKDGENGQPGIPVMPG DPGYPGEPGRDG/EKGNVVMG PPGPPGFPGERGQKGDGPPGIS IPGPPGLDGQPGAPGLPGPPGPA GPHIPPSNKGDTFCNCIGTGISG PPGQGLPGLPGPPGMPGAPGA PGFPGSKGEPGDILTFPGMKGD KGELGSPGAPGLPGLPGTPGQD GLPGLPGPKGEPVRITFKGERGP PGNPGLPGLPGNIGPMGPPGFG PPGPVGEKGIQGVAGNPGQPGI PGNKGDPGQTITQPGKPLPGN PGRDGDVGLPGIPGLPGQPLP GIPGSKGEPGIPGIGLPGPPGPK
4832	35200	A	4873	110	256	CSGTYRCYSF/HSRDPYLWSAPS DPLE/LVVTGPARQYYTKGNLV RIASGL
4833	35201	A	4874	2	2888	LSDPCSSRWDERSLSQRSRSWS YNGYYSDLSTARHSGHHKKRR KEKKVKHKKKGKKQKHCRRH KQTKRRILIPSDIESSKSTRR MKSSCDRERSSRSSLSHHSSK RDWSKSDKDVQSSLTHSSRDSY RSKSHSQSYSRGSSRSRTASKSS SHSRSRSKSRSSSKSGHRKRAS KSPRK TASQLSENKPVKTEPLR ATMAQNENVVVQPVVAENIPV IPLSDSPPPSRWKPGQKPWKPS YERIQEMKAKTTHL

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4834	35202	A	4875	350	986	LWGGGSARLLRLPRGPCLPPAS PSSPSSSSELS*SCSLGPSSSSSSS SSSCSLCPSSSSSSSSP*LPPSSSS SSSRPLPPSSSSSSSSSSSSSSSS SECLCSPSSRPRTTVAGLGPAPG FPSGPVDTCVWLLRFTSTMIW DCSLRL*VPEPPSSSSNSSPPSSL HKLAGGPASSTPPSFSSLKKG WAGPMVAGTVPPAVPAPSSTR TE
4835	35203	A	4876	1	496	SQSYSIRGSSRSRTASKSSSHSRS RSKSRSSSKSAVLASTARCAGS RKQCVPLPIRLCQLQSRSLQPS MVPWRWGLTGPRGIALPPAAR PGPLHEAPRWGPPRRRAPRPWP PGARPGRRRRRRAAASPAPSSCG PRASGAAGGGRGAPIGARASA GAAVWTPISTT
4836	35204	A	4877	3	4578	TLAVFVPTLAGFSVALGGPAW GRRRRSVSGVGVLWQWQCFLE CSRGPAQAGGQPALAATSVAM GAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCKNFLCLCSG EKGLGKTTGKKLCYKGSTFIR VVKNFMIQGGDFSEGNGKGGE SIYGGYFKDENFILKHDR AFLLS MANRGKHTNGSQFFITTKPAPH LDGVHVVFGLVISGFVIEQIEN LKTDAASRPYADVRVIDCGVL ATKSIKDVFEKKRKKPT
4837	35205	A	4878	1	1689	

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4838	35206	A	4879	1	1604	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIYK AVESQGKFVCLVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQLKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA NAISNARHFHNLTHVNASGLK HRYISITWKEAKNIIQRCPTCQM VHSSSFRRGGVNPRGLEPNSLWQ MDVTHIPLFGRLAYVHKRRRIR GGGGGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEQEQQEE QEQQEQEQEEQEERRRKDTE ELSYSLPLNRTQPCWHPDFGLP
4839	35207	A	4880	1	1146	
4840	35208	A	4881	1	1577	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FEGGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFWKVLPPQGNQQPIWI PSRYLKPYHKPDAKEEIEGSQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPMMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKISGCNCGPHPHRLQPCPD

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4841	35209	A	4882	1	420	MTNISTTLKDLKDAGMIDPIKS TFNL/PIWIPQKPDGSWKTTANN /R/KLNQATISIAAIVLDVASLPG KARSYHGFSSHAGRVIDSNNQK DIEGCTYILNVAGKNMFGIQLR RSVIFPCPNLMYTDNCSSHGPR GPSDYDSDP
4842	35210	A	4883	213	687	PEHILPGAQEGPSC/PLEPELE/V *NMSSWN\TLESCKMHGDLKY LFVITAKDQQ/VSIAAST/*GFC WNQ*VSASPSQAPGMPLVLGR RLWQGSRLGGLSISLSDCHGA HNHSFKRVTTTLQVFSWTVPQ AEPAMDCIHTA/DSPRQRLP*QA HESVAEVIIT
4843	35211	A	4884	1	648	MSSWNPLPESFKKHGYLLYLFV ITAKDQQ/VSITASTWGFYWNH SQGKNPEQMEASQKPVAGLWA WWLNISLSAASHGAQNHPFKR VTTLQSQGWNKDLWIMRELL CNNRPEQLLQETATIKAPIAPAD PWSQEVYINFCKAVSSVSCMPF NIHFNSNIPPESSGDWRMQQPC KVEQSILGAQRGGGGCRPGSLR ELFPCLLAEPNMEEVAALRA
4844	35212	A	4885	3	597	GTLEPAAEWSVLLGV\HSQDGP LDGAHTRAVAAIVVPANYSQV ELGADLALLRLASPASLGPV WPVCLPRASHRFVHGTACWAT GWGDVQEADPLPLPWVLQEVE LRLGECATCQCLYSQPGPFNLT LQILPGMLCAGYPEGRRDTCQP SPEPGPMCIS/VSHIQLRLDAVS HTWQRGTPEARLGSWERRQRQ QQQGPV
4845	35213	B	4886	387	552	
4846	35214	A	4887	20	612	
4847	35215	A	4888	792	959	TGLSSSQNPKATKSIPWHNRLL PNVDSQVQQNSQAIHYTN*GNS ESQYPFSKMDT
4848	35216	A	4889	268	500	
4849	35217	A	4890	1	529	
4850	35218	B	4891	259	1672	
4851	35219	A	4892	480	657	
4852	35220	A	4893	2	377	WCDFSSSLHRSVQALRTFCVTL SGAFVRDCTTVLSSTTCEPSTD V/CWAMNIVTSVLLLYGSEEEA FWLLVALC\ERMLPDYYNTRV VVIRTYDQRYEQCDLYDGLP TTLFTTDDWHVWPDLTGLP

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4853	35221	A	4894	1	251	TEARKAAAVMPKTAVLAAERP KKA WGV LIPKKSTKRTPKAFA GGGCW/TKVGWSKVAKKVPKP EASKPKKAAPKTRRYKSTLTKT
4854	35222	A	4895	283	427	PSVSKESPLNSPASQAGSATFAT TPLTPPK/PAATSSVAAAALLPA LPR
4855	35223	A	4896	111	1095	SRGWSRLPVPCCAPALLSPWAV NGIRRRGAGDGTTRGGSGCAG AHSAGLVASGPESWIPGPVPPG AEP RRGD SGLARCPAGHPSR ASPQRPAEGFDALAAPSRVPGD SRQLSRNNTRSRCEGRGGKTPP AWAGVHRHGPPPAAPPGRARV HGHRLRGGLPGGGKRGLPGC CPRAADPRGRP/GETSRSGERG PGRSAPLSLQPRHRTGLET/RQP SPLARSRPLGPRPSARRPSRPA PPPPPELHRGAPQGRVASQT RPGARARPAADTHSSLKSPASQ AGSAAFATAPLTPQKPQLRAP WQPLHSFRPCRGVTSRLRTAPP
4856	35224	B	4897	243	452	
4857	35225	A	4898	3	353	RRYLSPKYIKMFVLDEADEMLS RGFKDQIYDIFQKLNSNTQVVL LSATMPSDVLEVTKKFMRDPIR ILVKKEELTLEGIRQFYINVERE EWKLDTLCDLSAMHGDMQK ERDVIMR
4858	35226	A	4899	3	410	NLQEWKLDTLCDLYETLTITQA VIFINTRRKVDWLTEKMHARDF TVSAMVCLPAASLLWVCPSEV SYLKPGFLEPRCLPGLLHICFLF QHGDMDQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQKG GSKVI
4859	35227	A	4900	1	235	MLSYVLEVTKKFMRDPIWILVK KEELILESIHQFCINVEQEKWKL DTLRDLYETLTITQA/VIFTNTR RKCCSKVREI
4860	35228	A	4901	3	48	NSNVEREEWKLDTLCDLYETL TITQAVIFINTRRKVDWLTEKM HARDFTVSAMHGDMQK VIMREFRSGSSRVLITDILLVSR GN**QRGTRGVEAGHTM

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4861	35229	A	4902	2	879	AQFPTRLDLKATQALVLAPTRE LAQHIQKVVMALGDYMGASC HACIGGTNVRAEVQKLQMEAP HIIVGTPGRVFDMLNRRYLSPK YIKMFVLDEADEMLSRGFKDQI YDIFQKLNSNTQVLLSATMPS DVLEVTKKFMRDPIRILVKKEE LTLEGIRQFYINVEREEWKLD LCDLYETLTITQAVIFINTRRKV DWLTEKM HARDFTVSAMHGD MDQKERDVIMREFRSGSSRVLI TTDLLARGIDVQQVSLVINYDL PTNRKENYIHRIGRGGFRGKGV AINMVTEEDK
4862	35230	A	4903	1	1764	MASLEEGIYSLKINSKRSSYNS MNPQFTAGSEGNETEENPKFQ SRKGRPQDSGSSL SVLQEILG DDIPKVKEEAVISSQDLGECY CGERPARNATIFAPQKEKESAP EMSSSCDKRVTNPNPEKFSEGR PKTQNTLICEKCSQPSNFLDDY NPHVHQQRLSNQSRVICEKSSP PLNVPDNYNSHSHVIQKHKEKM AIERPSSGSDWSDVGGTTVIFSE EKPFSLCLPVVSEPPYYATDYT TFPPHYSPWHDYTSSWFSSTKS SCYPSLGSSSNTLQAGKSSCSSS SRSNNNIFQGERSSHQSFLSDYS TSFPVSSENTSRLDKMTEEGRS KNSSLFYYSRNVEAEAKEERVY QEETLGHPYGGASSFPRTIW QPEQPGFIDTHCHLDLLYSRLPF KGTFTKFRKIYSNTFPKEFQGC SCFCNPQNLSNLDNLWEDQLKDD LVWGVFGCRPHFAHYNNYQE RSILKALRHPKAVAFGEMGLD YSSKCTTHIPEQQKVFKRLRL AVSLK\KPMMIHCREADEDLLG ILKKYVPSDHKMYQHCFGTGSYP VIKPLLSCFPNLYVGFMAILTYS SAEQARETVKK

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4863	35231	A	4904	125	820	VLAPNYHITFRNLSSVSSPV TSA EPVLQAGQARELSFSSLHPASPL LVPSTPALTLHAFNALVLFPSFP LEKAAKRERPKSKIQTARVGK MRRTWSPHTTISAGGSVNGAST LKNSLVWEAKPADTTNPTPPTT HPNPGPTPPTNTNRHPPPHHPLT NTPAPPHQPPATTP/SPQTQTPN YCPNTDHTTPTHTDPNPVPPTR RTPPNRTGKRTNTSQNYRLVSP APKIHWEA
4864	35232	A	4905	407	757	
4865	35233	A	4906	5	426	GKTSTKSQNASSPPKDHNSSPA REQN/WIENEFNELTEVGFRIT SLEKNINDLMELKNTARELREA YTSINSQINQVEERISEIEDQLNE IKHEDKIREKRMKRNQQLQEI WDYVKRPNLRLIGVPESDIENG TKLENTL
4866	35234	A	4907	1	2267	MTGQFQDVVREEARPLPNRIM RLRFNFHATECSWDHLYVYDG DSIYAPLVAAFRCEVENRYQGN PLRGTCYYTLLIDYQFTFSLSQE DDRYYTAINFVATPDEETPIRG RQTAHTGELQLTSGGYPSGMK LPEEGTGERNRITINKKDVHTET PSKGHQHQRPKVDKSTKIKKN QRKKAENSKNKNASSSPEDHN SSPAREQNWMENEFDELTEVG FRRWVITNSSKLKHHVLTQCKE AKNLEKRLGQLLTRITSLEKNV KELMELKNKAQELCEAYTSINS QIDQAEESISEIEDQLNEIKHED KIREKR\IKRNKQSLQEIWDYVK RPNLRLIGVPESDGENGTKLEN TLQDIVQDNFPSLARQANIQIE ILKTPQRYFSRRATPRNIITFTK VEIKGKMLRAVREKDHSAIKLE LRIKKLTQNCTTMWKLNNLLL NEYWVHNEIKAEINKFFETNEK KDTTYQDLWDATAKAVFKGKFI ALNAHRRKWERSRIDTLTSQLE ELEKQEQTNSKASKRQEITKIR AELKEIETQKTLQKINESRSWFF EKINKIDRLLARPIKKKREKNQI DTIKNDKGDITTEPTTEMQTTIRE YYKHL YANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTTSSE IEAIINSLPTKKSPGPDGFTAKL YQRYKEEVVPLLLKLFQTVGK EGPLNSFYWANIILIPKGRHT

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4867	35235	C	4908	605	760	
4868	35236	A	4909	94	400	
4869	35237	A	4910	1	1538	MPIQMQYPQYKLVENKTQPPVI YQYWPPADLQYRPPPEVKYRP QVVCPVPNSTAPYQQPTAVVF NPTAPPSGGGIIAQNTDLVEWF FLPHSTIKTFTLYLDQMATLIGQ ARLRRIKLCESDSDKIIVPLNKEQ VRQAFINSGAWQIGLADFGII DNHYPKTKIFQFLKLTWILPKI TRHKPLENALTVFTDGSSNGKA AYTRPKERLIETQYHWAQRAE LVAVITVLAQDFNQSNIVSDSA YVVQATKDVETALIKYSIDDQL NQLFNMLQQTVRKRNFPHYVT HIRAHTNLPEPLTKANEQVDLL VSSAFLEAQELHALTHVNATGL KNKFDITWKQAKNIVQHYTQC QIPHLPTQEAGVNPREQHFTGK KNSPHEGKLIWWKDKKNKTW EIGKVITWERGFACVSQGENQL PGWIPTRNLKFYNEPLGDAKKS ASAETKNPQLSIIDSPGKAPGCL MPTTQNWLVETVPTVSATSKFT YHVMVYPPAPKRQRPARTGHND DGSFVKKKGD
4870	35238	A	4911	1	759	FRMVIRCLPQRELDGDRGNWT ATSAELTGKWRRYNFGGHGD CGPIISVPAQDDPILLSFIRCLQA NLLCVWRRDV*PDC*ELWIFW WGDEPNLVGVYIMNCRLWKK DSGKMAFPMNVGRC/FFKAIHN LLERCLMDKNFVRIGKWFVRP YEKDEKPVNKSEHLSCAF\TFFL HGESNVCTSVEIAQHQPILIN EEHIIHMAQSSPAPFQVLVSPYG LNGTLTGQAYKMSDPATRKLE EWQYFYPMVLKKKKK
4871	35239	A	4912	1	539	MRHPCDGNLSYFDHISVNMLA VMLYYGFGFRVSGIKTGLRGVQ RHLWPLPLDASSTKTVSSSHSD KGEIFSPFPCSLINCNNFEMRNT TKCLMDKNFVRIGKWFVRPYE KDEKPVNKRVTQSIEIWLFEY\ GVSLPCFAVERCALLPLCLLPR LMISISSTSRQPQYISRRGLKAKI SWVV
4872	35240	A	4913	198	620	



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4873	35241	A	4914	63	1267	RNRILRMEFFDWFWAFWSWLL NMIRSQNAKDSSSNSMENTDSP WCELFRELCKINALDVPDSLLV RGNEFSASVHNTFDHMRWRTKE RYEAGWLLLSSADRVMKENDE LRDSVSWLQKQILSLKSAKIAL SGSLISYRERAEIVEKQTQTLIM RVADLQQKGYINSPALCHNLIW RDLDHFSFPYDITLFHYIDDIML IGSSEQEVANTLDILKGQRFVLT VIDTYSRYWFASPECNASE/KT TIHGFTECIIHYHGIPHSIASYQG THFMAEEPGWASKNQGVETPF TITPSDPVATFLLPVPMTLRSAG LEVLVPEGGTLPPGDTTMIPLN WMLRLPPGHFGLLLPLSQQAK KGVTVLAVVIDPDYQDEISLLF HNGAIISDGNGVILIGLLQWFST
4874	35242	A	4915	2	2210	
4875	35243	A	4916	1	2036	MDTFLDITYTLPRLNQEEVESLN RPITGAEIVAIHNSLPTKKSPGPD GFTAIFYQRYKEELVPFLLQLF QSIEKEGILPNSFYEASIIIPKPG RETTKKENFRPISLMNIDAKIVN KILAKRIQQHIKKLIHHDQVGFI PGMQGWLNTCKSINVQHINRA KDKNHMIIISIDAEKAFDKIQPPF MLKTLKKLGTGTYFKIVRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPFLFNIVLEVLAIR QKEIKGIQLGKEEVILSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKTNVQKSQAFLYTNNI QTGSQIMSDLPFTIASKRIKYL IQLTRDMKDLFKNYKPLLTEM/ KTKKWKNIPCS/WELEKTTLKFI /WNRKRARIAKSILSQKNKAGG ITLPDFKLYYKATVTKTAWYW DQNRDIDQWNRTEPSEITPHIY NYLIFDKPEKNKQWGKESLFN KWCWENWLAICRKLKLDPFLT PYTKINSRWIKDLNLRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATQAKIDKWEIKLKSFCT AKETIIRVNRQPTKWEKIFTTYS SDKGLISRIYNELKQIYKKKKQP HQKDFAYHFTVFVFYFGAFLLE AAATSLHDLHCNTTITG/HATPE **PV*HKRSSLTITYLCRSG*IIW WCDPHTHS
4876	35244	A	4917	1	1359	

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4877	35245	B	4918	1	948	
4878	35246	A	4919	1	981	
4879	35247	A	4920	1	3747	
4880	35248	A	4921	1	1875	
4881	35249	A	4922	1	2238	
4882	35250	A	4923	1	3924	
4883	35251	A	4924	1	1068	
4884	35252	B	4925	62	389	
4885	35253	B	4926	1	3663	
4886	35254	A	4927	1	1474	MAVSTTVRVDMPCCAVMLYC WGRSGKEQQPDEALKGKGFTV CFEGLRFGQKPGSYFSLDQIGH VEIQMITPPWRGTTLSTKRGR KRGKTESDREHNLAPPKGRDTP KKEGAHVRRGGPLSGTPTEKK GKARSPRYGDTHRGEGLNKTH RAPQNFSESPEPTINKIDRPLAR LIKKKREKNQIDTIKNDKGDIT NPTEIQTTIREYYKHLYANKLE NLEETDKFLDITYTLPRLNQEEV ESLNRPI TGSEIEAIINSLP TKKS PGTDGFTAKFYQRYKEELVPFL LKL FQSIEKEGILPNSFYEASILI PKPGRDTQKKENFRPISLMNID AKIVSKILANRIQVHIKKLIHHD QVGFIPGMQGC VGS SARAIGQE KEIKGIQLGKEEAKLSLFADDTI ECLNPIVSAQNLFKLISNFSKV SGYKIHVPKSVSFLYTNNIQAES QIKNAIPFTIASKRIKYLGIQLTL EVKELYNKNYKTLLKEIRDE
4887	35255	A	4928	419	1002	CYQRWKVLKKSSGPLARL/IKK REKNQIDA KNDKGDITDPTEI QTTIREYYKHLYINKLENLEET DKFLDITYTLPRLNQEEVESLNR PITGSEIEAIINSLQTKKSPGPDG FTAKLYQRYKEELVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RIRIAKSILSQKNKAGGITLPDF KLYYKATVTKTAWYW

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4888	35256	A	4929	1	2502	MFFETNENKDTTYQNLWDTFK AVCRGKFIALNTHKRKQERSKI DTLTSQKKEPEKQEQTTHSKASR RQEITKIRAELEKEIETQKTLQKIL QKINESRSWFFEEINKIDRLAR LIKKKREKNQIDAINKDKGDITT DRTEIQTIREYYKHLVANKLE NLEEMDKFLDTYNLPRLNQEE VESLAHRLITGSEIEAIIINSLPTKK SPGPDGFTAKFYQRYKEELVPF LLKLFQSIEKEGILPNSFYEANII LIPKPGTDTTKKENFRPISLMNI DVKILNKILANRIQQQIKKLIHII DQVGFIPGMQGWFNHKSINVI QHINRTKDKNHMIIISIDAEEAF DKIQPFMLKSLNKLVLVLAR AIRQEKEMKGIQLGKEEVKLSL FADDMIVYLENPIISAQDLIKLI SNFSKVSQYEINVQKSQASLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLI NEIKEDTNKWNIPCSWVGRIN IVKMAILPKVIYRFNAILIKLPM TFFTELEK\TTLKFIRNQKRACIA KSILSKKE\KAGGIMLPEFKL*Y KATVTKTVWYWCQNRVIDQW NRTEPSEIIPHIYNHLIFDKPDKN KKWGKDSL FNKWCWEHWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLAGHLGNTIRDI GLGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETAIRVNR
4889	35257	A	4930	1	4187	MGDFNTPLSTLDRSMRQKVNK DSQELNSALHQADLTDCRTLII PKSTEYTTFAAPHHTYSKIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVY RGKFIAFKAVCRGKFIALNAQN RKQERSKIDTLTSQKKELEKQE QTHSKASRRQEITKIRAELEKEI TQKTLQK\ISESRSWFFKTNKI DRPLARLIKKKR

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4890	35258	A	4931	1	1818	MSSRGPCTLETLINPSPSVADDI PHLRPKPVYITTTDRDNENIYSTK IPYMAARVVFIKWIVTFLEKK YLTATQNTKNGVDVLPKIIQTV GGGAVQERAPELDGGGPTEQD KSHSNSSTLSDRRLSNSSLCSE EEHRMVYEMVQRILLSTRGYV NFFVNEVFHQAFLLPSCEIAVTR KVVQVYRKWILQDKPVFMEEP DRKDVAQEDA EKLGFSETDSK EASSESSGHKRSSSWGTHNSFT SAMSRGCVTEEG/TIQMLKAGV QALLQPVLCVFPLIPLPLCNQA ARPAVVSIPLGDLLPWLSVLGG PADQWHLSYLKPEGSSAYACIL EALESAGKGLWKVSAVGRKP WTRGRSDRKGTVGHQVQFLFF KDEGRVDSRILTLMAWIRPN LCVYISRELWDDFLGVLS\SLTE WEELINEWANIMDSLTAVLAR TVYGVEMTNLPLDKLSEQKEK KQRGKGCVLDPQKGTTVGRSF SLSWRSHPDVTEPMRFRSATS GAPGVEKARNIVRQKATAKRS QSI SNCVHLSEALPATKSVPLLL HTLYKNKALKAAALGQPVGKAD QLVVAGSPSVCCVEDQWGRSN LEAMVLWLYCIPPDGDVLYL
4891	35259	C	4932	96	278	
4892	35260	A	4933	1	261	KLRLPPGHFGLLLLLSQQAKKG VTVLAGVIDPDYHNEISLLHN GGKKKTRPAEMLAEGKGNT WVGEEVSHQYQL*PHDQLQKR
4893	35261	C	4934	36	385	
4894	35262	A	4935	1	2349	
4895	35263	A	4936	207	561	QLAEPHWIPGTRKDAQCLVGL FGFWRQHIPHLGGLLWPIYRVT QKAASFEGWPE*EKALQQIQPS VQAALPLGP*DLADPMVLEVS MADRCAGWSLWQAPIGELQQ KPLGFWSKALP

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4896	35264	A	4937	1	1375	MSTTQLDTMGAESLCNMETVQ VEDEGIQKLKEIRMVEWITPFRP THPSCEGPEDIPLTNALQNTFVR AAPASLKSPVVALLLSPVGYRT HAVVISPVPECFRGIDILSSWQN PHIGSLAGRAHQKQFVGSWQG QQYAFTVLPQGHINSLALCHNL IWRDLDFLLSQGITLVHYTDD IMLIGSNLADPMVLEVSMADRC AGWSLWQAPIGELQQKPLGFW SKALPSSADNYSPPERQFFACY WALVETECLEPTGHQLTMQPEL PIMNWVLSDPSSHKWVHGQSG HGGRDSGYSWTQQHGLPLTKG DLSMTTAECQIFQQQRPILSPRY GTIPWGDQPATWRQKWQRFVL TGIDTYSRYEFAYPACHASTKT TIHGLMEFLIHGHHGIPHSIASDQ GTHLMAKEVRQWAHAHGIHW SYHVPHHPEVAGLIERWNE\GL LKSQQLQHQLVNRRLRRELQCWL
4897	35265	A	4938	1	324	INCLRNCKTYQA/RKPLWFYNT SLKFFLNKP/MLADVVFIEIGTT VPAHRAILV/ARCEVMAAMFN AGIFQAMCLLICE/ MYQVSRL QHICELFII/TQLQSMPSRELASM NL

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4898	35266	A	4939	108	2304	VAAAYPPPPASPPWSPARSLAGA APAPLCVGPAAVEAREGDAAG DERIAGELAARGPREAVSRCFS PSRRPALGFEIMSIHIVALGNFEG DTFHQDNRPGLIRTYLGRSPI. VSGDESSLLLNAASTVARPVFT EYQASAFGNVKLVVHDCPVW DIFDSDWYTSRNLIGGADIIVIK YNVNDKFSFHEVKDNYIPVIKR ALNSVPVIIAAVGTQRNEELPCT CPLCTSDRGSCVSTTEGIQLAKE LGATYLELHSLDDFYIGKYFGG VLEYFMIQALNQKTSEKMKKR KMSNSFHGIRPPQLEQPEKMPV LKAESHYNSDLNLLFCCQC VDVVFYNPDLKKVVEAHKIVL CAVSHVFMLLFNVKSPTDIQDS SIIRTTQDLFAINRDTAFPGASH ESSGNPPLRVIVKDALFCCLSD ILRFIYSGAFQWEELEEDIRKKL KDSGDVSNVIEKVKCILKTPGKI NCLRNCCTYQARKPLWFYNTS LKFFLNKPMADVVFEIQGYG QCPAHRALVAPCEVMAAMF NGNLHGKAKSVLIPVYGVSKE FLSFLEYLYTDSCCPA\GIFQAM CLLICAEMYQVSRLQHICELFII TQLQSMPSRGTGHPWNLDIS/V DLL*KGPSFHHSWIAFSTWAYF HFHCYLTYLIFQFKRPGIFRDLF S/EGRNGSFLFGKRHRWGSPNM LLGRQLAGITGKYFTSPGNVG
4899	35267	B	4940	1	3117	
4900	35268	A	4941	1	1162	MRVCARACVTRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIA YQDTPVRPNAAT AISELNALAVKGVILTGDNPRA AAAAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTL\MTGLWLAVLADTGATV LVTANALRLLRRR

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4901	35269	A	4942	1889	3387	QWAIKQFKHAEKENPYLFGGG HLRAIFR*SGFQ*RQLHTMHWG AS/QQAEHP/LAQPSTRAQLRTP P/TADS/QRALVGSGMKPRLNG ERVLICAAGKHPADAFTGLINE LESAGQTVVLVVRNDDVLGVI ALQDTLRADAATAISELNALGV KGVILTGDNPRAAAAAGELGL EFKAGLLPEDKVKA VTEL NQH APLAMVGDGINDAPAMKAAAI GAMGSGTDVALETADAAL TH NHLRGLVQMIELARATHANIRQ NITIALGLKGIFLVTTLLGMTGL WLA VLADTGATVLFPPRLF EAR NSQVGNGETNQTRFRLCAAPG GTFIADFTAGTGRRARPRRNR RVVVSFDFHQNMRRFLMEIVA ARFVVS KVA AHFRTFHYGGVIF ISRENV IWRGFESIFDHLEQRFR LLFTIDNPVGKNFVA AVLGV R LGKHIQFDVVRVTTKLCE SILQI VNFIFRQSQAKTQVSVDQRLTA LPQQINAGNRSRLMVGKQLLCI
4902	35270	B	4943	1	2104	
4903	35271	C	4944	1	1215	
4904	35272	A	4945	3	268	YEFNRPYPEIQRSGISKLLEPLL FAATSDSQLSKTEISSIKINSETV PVYQLRYNGNNA LMFATYQD KMLVFSSTDM LFKDDQDTEA
4905	35273	B	4946	1	1725	
4906	35274	A	4947	1	1437	
4907	35275	A	4948	2	736	QCPYPYIAATGRILVVTHLICLA PQIVENQV TYPLTTTMLS VPGA KTVRGFSQFGDSYVYVIFEDGT DPYWARSRVLEYLNQVQGMLP AGVSAELGPDATGVGWIYEYA LVDRSGKHDLADLRSLQDWIL KYELETIPC VSEVASVGGVVKE YQVVIDPQRLAQYGISLAEVKS ALDASNQEAGGS\SI\ELAEAEY MGGTCSAHGRALSRGV LWCRF SAIVRGPPRGMFCGAGAAPNLI
4908	35276	A	4949	531	632	
4909	35277	A	4950	532	609	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4910	35278	A	4951	1	525	LGVEATA\IGDFGK\AAEKLPPV\VELAQACAHAVMKSGLD LAYS YCMQVNHGFAQPLEFLLGGLD KVPVLLVFINGVATPLPGFQRT RMLGEAIGRFTSTPQYAGDTVN DEDISNTIRALFATGNFEDVRVL RDGELRKFP\TCESDDNFRPVTF SVNYVIRHDWVGIRRVVPENE
4911	35279	A	4952	1	2769	
4912	35280	A	4953	1	681	
4913	35281	A	4954	1	1230	
4914	35282	A	4955	1	774	MLRTSDRPPYQYPKRCIPLSVL EVLRCARRWSLRPYKQLARAYI /ERYRHDR\DIEREKRGRLNQEI RGLVEQTNASLLNENANKDSK AHERGDIHYHDL DYSPFFPMFN CMLIDLKGMLTQGFKMGNAEI EPPKSISTATAVTAQIIGSVHIYG GTTINRIDEVLAPFVTASYNKH RKTAEWNIPDAAGYANSRTIK ECYDAFQSLEYEVNTLHTANV EGLTGDDGI AVEALKKNSQKPR MSASHNCELVSLRGRQYT
4915	35283	A	4956	1	1278	
4916	35284	A	4957	461	1002	SLSTKGYAAAKWCSTACAGS/T LLLIVLLWVFIPKGFPPGQDNGI IQGTLQAPQSISFANMAQLQRQ VADVILQDPAVQSLTSFVGVDG TNPSLNSARLQINLKPLDERDD RVQKVIA RLHTAVDKVPGVDL FLQPTQDLTIDTQGSRTQYQFT LHATSLDALNTWVPQLMEKI\Q QLPKLS
4917	35285	A	4958	1	291	MNPVDRPLLDIGLTRLEFLRISG KGLA\GLTIAPALLSLLGCKQED IDSGTVGLINTPKGV\VTQRAR CTGCHRCEISCTNFNDGSVGTF FSRKPH
4918	35286	A	4959	1	306	MKNFEVLQPLQNSLSGLPLWV SERILQQINQLTHYEPVIGIMGK TGAGKSSLCNALFAGEVSPVSD VAGCTRDPLRFRLQIGEHFMTI VDL\PGVGESGVRD
4919	35287	A	4960	2666	2775	
4920	35288	A	4961	9	308	GDLDGSRHRAFLCHLPVELKTA LMFPVTLTRALMETAY/ATAVS A/NFRTERGAH/SRFD\FPD/RDD ENWL/CHSLYLPES\ESMTRRSV NMNPKLRPAFPPKIRT
4921	35289	A	4962	1	1132	



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4922	35290	A	4963	1170	1352	RNLPDAAGQSCAGEIRLYRQQT QRSRLQRWLHLACFRRCNLHR RELDATA*QHVRSCRWR
4923	35291	A	4964	1	312	MRKLTALFVASTLALGAANLA HAADTTTAAPADAKPMMHHK GKFGPHQDMMFKDLNLTDQ KQQIREIMKG\QRDQMKRPPL ERRAMHDIIASDTFDKVKA EA
4924	35292	A	4965	3	205	KDHIKGVLEAQNSLSTQVSLFF *SFFG*NSNMRNLIQIYRSL/CTK AI*LMNFKRHKNQLVINYLRS
4925	35293	A	4966	1	915	MTGVATARARGLRRLPSVGQV PPFARLWKGVTVERHMLANI GTGSQHPGCGFQLINQNSVIVF AAGEVNGFTSGDVQCLKMRSG DMNDIQRRQRLLPDGNKFGEIQ TTIREYYKHL YANKLEDLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIEA VVNSLPTKKSPGPE RLTAEFYQRYKEELVPFLKLF QTTEKEGLLPNSFYEASVLLIPK PGKDTTKKENFRPISLMNIDVKI LNKILANRIQQHIKKLIHHNQV GFIIGVQGWFNICKSTNVIYHV NRTNDKNH\IISIDTEKA FD
4926	35294	A	4967	1	1338	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4927	35295	A	4968	1	1928	PPLVIHRQTGSGEDLQQTPTDL QLRVLTIRRKTNKQKGHPHQN ISSRRHEITKIRAEKETETQKTL QKKSMPNRSWFF\ERINKIDRLL ARLIKKKREKNQID\AIKNDK\W DITHRIPT\ETI\REY\YKHLYT NKL\EN\LEEMDKFLDTY\TLPR LN\QEEVESLAHRLITGSEIEAITN SL\TKKSPGPDGF\T\AEFYQRY KEELVPFLLLKFQSIEKEGILPNS F\YEASIIISKPGRD\TTKKENFR PISLMNIDAKILNKILANQIQQHI KKLIHHHQVGFIPGMQGWFNIL KSINVIHHINRTKDKNHMIIISIEA EKAFDKIQQPFMLKTLNKLIGID GTYLTYLKIIRAVYEKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFN\VL\EVLVGAI\QEKEIKG IQLGKEDVKLSLFADDMIVYLE NPIVSAQNLLKLISNFSEVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKT LNQKFSYWFRV\NKH\YIHQRTFP LKETEFNTIATLYNGASP/RTAP KSTGTNGHQASGLPRF*RIAFCS ALVKS\KRKLYQGGYLP\GQTDRR EEGVSWCPGGP
4928	35296	A	4969	2	237	QPVEDTWLSTPAAPMVDSLIR VRVMARGNAITLPVCGRDVK/F TLEVLRGDSVEKTSRVW\SGIET YQELVTEDALDDL
4929	35297	A	4970	1	1752	
4930	35298	A	4971	1	723	
4931	35299	A	4972	1	1701	
4932	35300	A	4973	1	1446	
4933	35301	A	4974	1	403	MKLMETLNQCINAGHEMTKAI AIAQFNDDSP\ARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVA\AHKGLALKGLRVLLVEV RHRV
4934	35302	A	4975	1	1374	

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4935	35303	A	4976	1	2259	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLAL/KGLRVLLVEVHKRWS*N DEGYRHCTV***\HPEARKITRR WRIGEADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQR/LVIQ LNKLIICVMCLVRDCDVLKTYF HR*SGLLPIKVAFTKP/HVSVHL AQDLALKGLRVLLVEPPSAPN LGIGTINVVCAADVLIPTPAEL FDYTSALQFFDMLRDLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMVLKNV VRETDEVGKAAPMVDSLIARV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDGI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKGYESFPWFIKRAHSPSRG LYSVHINPYLIPFFIGLQNRFTQF RLSETKEITNPYAMRLYESLCQ YHPLTIEKVMKPLITSNTVTDEI ERANVFKMNGKWYLFTDSRGS KMTIDGINSNDIYMLGYVSNSL TGPYKPLNKTGLVLQMGDPN
4936	35304	B	4977	1	1744	
4937	35305	A	4978	1	2367	
4938	35306	A	4979	1	1215	
4939	35307	A	4980	1	946	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYA IKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGQAPCMKLTMR SSSAPSPWML
4940	35308	A	4981	1	1572	

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4941	35309	A	4982	1	1617	
4942	35310	A	4983	1	550	
4943	35311	A	4984	1	3818	
4944	35312	A	4985	607	3777	
4945	35313	A	4986	671	3091	ARCQRPVGRVPDILLRCLPRAT TPAPSPAPGLVVRRLAAPVPAA APVPAAPVPAAAPVPAAAPVP AAAPVPAAPVPVAAAPVPVAA PVPAAAPVPAAPVPAAAPVPA AAPVPAAPVPVAAAPVPAAP VPRFQSPNQASTSDSPHIGQLP HQTVPISDSFHTGQSPHRTDSTP DSPHTGQLPHRTVPTPD/ELPHR TVPTPDSFHTRQSPHQTASTPDS PHIGQLPHQTVPISDSFHTRQSP HQTASTQDSPHTGQIPHRTVPT PDSFHTRQSPYRTASTPDSPHIG QLAHRVPTPDSFHTRQSPHRT DSTPDSPHTRQLPHQTVPISDSF HTGQSPYRTASTPDSPHTRQLP HQTASTPDSPHTRQSPHRTVPT PDSSPHQTVSTPDSPHTRQLPH QTVPTPDSFHTRQSPHQTVPPT DSPHTRQLPHQTASTPDSPTPD SPHTGQSPHQFPHQTVPPTADSP HTRQLPHQTVPPTADSPTPDSFH TRHSPHQTASTPDSPHIGQLPHR TVPTPDSFHTRQSPHQTASTPDT PHTRQLPQQTVPTADSPTPDSF HTRQSPHQTVPPTPDSPHTRQSP HRTVPTPDSFHTRQYPQRTVPT QTASTPGSPHTKQSPHQTVPPT DCPHTGQSPYQTVSTPDSPHTR HSPHQTASTPDSPHIGQLPHQT ASTLDSPHIGRHPRQMAPTPESP HARQLPCQMAPTPDSPTLDGPH
4946	35314	B	4987	1	891	
4947	35315	A	4988	157	1990	
4948	35316	B	4989	1	2157	
4949	35317	A	4990	1	378	MSIKGTYLKVIKAIYDKPTASSI LNGENLKAFLLRGTGRQGCPLY KINVYKSVALLYTTNDQGENQI NNSTPYTTAPRKIKYIGIYLTKE VKDLYKENYKTLLKEVIDDT/R WKHIPCSWMGRINIV
4950	35318	A	4991	1	392	

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4951	35319	A	4992	3	1570	ETDFAFVGQAGVQWCDLSSPQ PLPPWVQAILLPQPPRQGCWSG IPKWSGISEDVQVWKNCKLDL AAATGKNCLGQGEEALLTQMR TGNQREVSDWWEFVYLRSRN PLMVNSNYMMDFLYVTPTPL QAARAGNAVHALLLYRHRLNR QEIPPVRGPQWVRDGGVVLWP LGHVGPGRQLTAHGFLQTLLM GMRPLCSAQYEKIFNTTRIPGV QKDYIRHLHDSQHVAVFHRGR FFRMGTHSRNSLLSPRALEQQF QRILDDPSPACPHEEHLAALTA APRGTWAQVRTSLKTQAAEAL EAVEGAFFVSLDAEPA\GLTL EDPAASLDAYAHALLAGRGHD RWF\DK\SFTLIVFSNGKLGLSV EHSWADCPISGHMWEFTLATE CFQLGYSTDGHCKGHPDPTLPQ PQRLQWALPDHIIHSSISLALRG AKILSENVDCHVVPFSLFGKSFI RRCHLSLDSFIQIALQLAHFRDR GQFCLTYESAMTRLFLEGR TET VR SCTREACNFVRAMEDK KKT
4952	35320	A	4993	1	1027	MPAKSPGQDVLGTDNIKIDVFK QTNQKSHTGEKPYECPECGKAF SEKSRLRKHQRTHTGEKPYKC DGCDKAFAKSGRLRIHQRTHTG EKPFECHCEGKSFNYSILIVHQ RTHTEKPFECNECGKSFSHMS GLRNHRRTHTERPYKCDECG KAFKLKSGLRKHHRTHTEKPY YKCNQCGKAFGQKS\QLRGHH RIHSGEKPYPKCNHCGEAFSOKS NLRVHHRTHTEKPYQCEECG KTFRQKSNLRG\HQRTHSGEKP YECNECGKAFSEKSVLRKHQR THT\GEKPYNCNQCGEAFSOKS NLRVHQRTHTGEKPYKCDKCG RTFSQKSSLREHQKAHPGD
4953	35321	A	4994	154	331	IPAAATCMGSLG*ETPGLWA RRSVKSRLFPGLPSPSRASVRS LLLLPAWAFLLEGIVDTRPTAW RAFPWTLFLSVFCQFLDFPETS LDSQKLSLDTPSF

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4954	35322	A	4995	657	1455	PEPKPAAVAPPPESPLPAGDSEG CLQPGHLL\PASPRLPRPRQAAS LAHRPEKSAPGADCPGRR\GR PWTCGGLSGPAAAPRPCPLAPA FAPAFLALGAQR\GPGPEQGGH ERQAERPGRRSRRTRAYSARIY LPVAAEWPMGPGPEPGAGRR RGEVPGPGAQRSPARRRRGGPA AVSSGGRGVGGLRGAVLFQHP EQQQRVPVGLAGLGAQQPAHV WRYGPLST/PPALGPAAARGP\ GRRLFLPFSFSPSAGAPGAASRP SPRRSP
4955	35323	A	4996	1	415	
4956	35324	B	4997	8	211	
4957	35325	A	4998	1	563	MDPNHEEIPDLPEKEFRRVKSK NHMTISIDA EKAFDNIQHRFMI KTLISKIGIQGTHFN\IIKAIYDKP TASIILNGENLKAFLRTGTSIVL EVLARAIRREKEIKGIQIGKEEV KLLLFADDMIVYLENPKDSYRK LLEQIKEFSKVSRYKINVQKSIA LLYANS DQAENQINNPTSFTIA AKNKIK
4958	35326	A	4999	667	960	
4959	35327	A	5000	317	1157	EFRMDPAIALVLALSLTVPKLT VPDSPLRLYRSFCTSACTSNLV VHFA*KEKWPDV*LYTDSWAV ANGLAGWSGTWKKHDWKIDD NEIWGRGMWIDLSEWSKTVKIF VSHESAHHIT*KSSAEEDFNNQ VDRMIHSVDTTTRPLSPATPVITQ WAHEQSGHGDRDGGYAWAQQ HGLPLTKADLAMVTAECPICQQ QRPTLSP*YGTIPRGDQPATWW QVDYIGPLSSWKGQRFVLTGID/ TSGYEFAYPARSSANSTIRGLM ECLIH HHGIPHSIASNQLYS
4960	35328	A	5001	2	15246	

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4961	35329	A	5002	1	951	MALALNRYL/CLAVLPLITKCA PLFAG/TEHRAIMVDSMLHTVY R/LSRGRSLTKAQRDVIED/CLM SLC\RLLRRLVFDVPILNEFA/K MPLKLLTNHYERCWKY/YCLPT GWANFGVTSEEE/LHLTRKLFW GIFDSL AH/KKY/DP ELYRMAM PCLCAIAG/ALPPDYVDASYSSK AE/KKATVDAEGNFDPRPVET/L NV/IIPEKLDSFINKFAEYT/IEK WAFDK/DKEIYRWPIKESLKAM I/AWEWTIEKAREDLDPREGYN PQPPDL SAV/TLSRELQAMAEQ LAENYHN/TWGRKKKQELEAK GGGTHPLLVP/YDTLTAKEKAR DREKAQSY
4962	35330	A	5003	273	478	
4963	35331	A	5004	2	622	GAPRSLSEKERQLMGMINQLSS FREQLLHAHYEQKKLAASQIEK QRQHMKLGKQ\QQEQIARQQQ RLIQQQHKINLLQQQIQQLYAA QLAAMQVSPGGKLPGIPQGNL GAAVSPTSHTDKSTNSPPPKSK TCCLLLWEDEHSASIEVTNQOI HLHLASSITDHGGKVIWERCLE ESGKGVTGFPDWSRWRGRIPPE GSKEGFTKE
4964	35332	A	5005	3	512	
4965	35333	A	5006	1	642	MHAQTYAHTDTRAQPCTSMEK QVSLKPTEEAHKKERKPKPG KYICQYCSRPC/AKPSVLQKHIR SHTGYG\CEMYPHGLEMERIPG EEFEPTGESTDSEETSATSG HPAELSPRPKQPLLSSGLYSSGS HSSSHERCSLSQSSTAQSLEDPP PFVEPSSEHPLSHKPEDTHTIKQ KLALRLSERKKHQVIDRLGSGI LAGLSWQLLPQGEAL
4966	35334	A	5007	341	1020	TLNRRQGCCLGSWLTRSNGILI FEISRPTYLPILLILFLVKR/HKL KMSVLNMVVRHDPGSTESAKA KEELIFRCRSRHFASPLFSQHA AADKHKFQRF LTADMALAVTV YAPTTFPSSLLLFKQKSNGMH NLIATGHLLLVDPNRMVIKRVV LSDPPFKICTKMAVVCYMFENR EDVQWFKPVELRTKWSRRGHI QEPSGTHGRMKCSFDRKLKLSQ NTELMNLYK

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4967	35335	A	5008	1	847	EKAQALEDLAGFKDPAPGHT ESMTHDKTTKIPCKSPPELVDT ATSSKKWPRACGQKVEVKEEL LAVGKLTQTSGETTHTNKEPEG EGKGMKAFKQPAKQKLDPEN TGSRRLLPRVPKEKAQPLEDLAS FQELSQTTPGHTEELANGADSFT SAPKQAPDSGKPLKISRRVLQA PKVEPVGDLVGTR/D/PVKSQSK SNTSLPPLPFRGCGKDGSVTG TKRPHCMPAPEEIIIEELPASKKQ R/VVAPRVRGKSPEPLVIMKRSL RTSAKRIEPAEDLNSNNMKTN
4968	35336	A	5009	9	1094	IRHEEESMTDDKTTIIPCKSSPEL EDTATSSKRRPRTRAQKVEVKE ELLAVGKLTQTSGESTHTDKEP VGEGK\GTAKFKQPAKRKLDA EDVIGSRRQPRAPKEKAQPLED LASFQELSQTTPGHTEELANGAA DSFTSAPKQTPDSGKPLKISRRV LRAPKVEPVGDVVSTRDPVKS QSKSNTSLPPLPFRGGGKDG VTGT\KRLRCMPAPEEIVEELPT SKKQRVAPRARGKSSEPVVIM K\RSRLRTSAKRIEAEELNSND MKTNKEEHLQDSVPENKGISL RSRRQNKTEAEQQITEVFVLA RIEINRNEKKPMKTSPEMDIQNP DDGARKPIPRDKVTENKRCLRS ARQNESSQP
4969	35337	A	5010	1	459	MAKPWRALCILLRSLDSFLQLS ASLTCFGFMHNTYKNRPWGV RSSTERSPRKGTAGDMRAGGRF NAPLIGQDLLFKEHFASKALDT CTNIARSAKTQGGPVAAILL AFGPCIFNLRVKFVSSRIKAIKL QM/RLTIYRGPLDRPAGPSTGL
4970	35338	B	5011	1	687	
4971	35339	C	5012	194	418	
4972	35340	A	5013	17	396	
4973	35341	A	5014	1	70	



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4974	35342	A	5015	1	994	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVTNRD\IICQ IAYARIEGIMIVCAAYAPELPK\ YGVKIVGLTNYAAA\YCTGLLA GPAGFFHRFGMDKFYEG\QVEV TGDEYNVESIDGQPGCLHPAY WDARPLPRTSPLAIKVFWLP*R GA\VDGGLVLFPPQYPNRFPLW WIPESQGNLNARRYHREGTIHG PRIVAGLHAPTLMEEDEDA\YK KQFVRQYVKNS\VTPD\MMEE MYKKAHAAIR\ENPVYEKKPK KEV\KRKRWNR\PKMSLAQKK DRVAQKKASPL\RAQERAAEKL NQTIFYKDFSDIAN
4975	35343	C	5016	27	308	
4976	35344	C	5017	68	307	
4977	35345	A	5018	388	1485	
4978	35346	A	5019	3	1940	RDRMILLKMEQEIIDFIADNNN HYKKFPQMSSYQRMVLVHRVA AYFGLDHNVDQTGKSVIINKTS STRIPEQRFCEHLKDEKGEESQ KRFILKRDNSSIDKEDNQSVCS QESL FVENSRLLEDN NICNETYK KRQLFRGNRDGSGRTSGSRQSS SENELK WSDHQRAW SSTDSDS SNRNLKPAMTKTASF GGITVLT RGDSTSSTRSTGKLSKAGSESSS SAGSSGSLSRTHPPLQSTPLVAG \VAAGSPGCV\YPENGIGGQVA PSSTSYILLPLEAATGIPPGSILL NPHTGQPFVNP DGT PAIYNPPTS QQPLRSAMVGQSQQQPPQQQP SPQPQQQVQPPQPMAGPLVT QSIPAKKELNAFRVRNQEQRDT GTLHEGSGKISRMVLGWEPLSP YAPDRDDVATQFGQMTLSRQS SGETPEPPSGPVYPSSLMPQPAQ QPSYVIASTGQQLPTGGFSGSGP PISQQVLQPPSPQGFVQQPPPA QMPVYYYPSGQYPTSTTQQYR PMAPVQYNAQRSQQMPQAAQ QAVLEVLSPLVSTMPPKLAVL VMAGFRLRLELSESVLLQALW WSDHLSSFSELLCRLPDVLPES LLPLEYDHQKDAQGQDYLTCTM VLVTLLESPTGIQEDDSNEISVI

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4979	35347	A	5020	3	1353	GDAYALVLRVTLYCGKCHNE VVLAPIFEILSTESIQQDL.PYSV MLMSMLAITEGRRSFSVSVENA CSNYVTTVQVKEVNQMHIHSPN SCNAIHPRDHILEISGTPHTLQ VEELEDASQMSQTLILLIEHDP VSRSPAQLRLDAWLSPTQNA GHPHALSTLDTKDNLEGLRRC SLRLSNSISKSPSPSSPKEPLLS RDISCWESLCCSSTYSKQNFRC DLIHGEVLGKGFFGQAIKVTHK ATGKVLVMKELMRCDENQK TFLTEVKVTLPSNLLPPGHDL QTGAREQTGILKTGGLSVPGGA GHPAACRAGGVGPHCEHAVRP DPRLTPLALAQPAGGCSTASIA PLFSIPAVSRVFRASRGAAACLE AEQAGRTILTCEVCKLVVGLSL DSQQQLSSVLCGWLCSCPQL WSLNRHPQHQHHLVEMQNLS HPRPGETESAL
4980	35348	A	5021	1	588	MEYPDGGSTLDLLEPGPLDETQ IITILREILKGLDYHSEKKIHRG VKAANVLLSEHCEVKLVDFGM AGQLADTQTKRNTFVGTPFWI APENNPPTLEENYSKPLKEFVE ACLNKELSRPTAKELLKHKIFIL RDTKKTSYLTTELIDRYKRWRA KQSQEDSSSEDSNSETDGQDS\G GSDSGDWIFTIQEKDPKNL
4981	35349	A	5022	1	1380	GPRASPPRADRRGPAVPSQEVA VLSAMAHSPVQSGLPGMQNLK ADPEELFTKLEKIGKGSFGEVF KGIDNRTQKVVAIKIIDLEEAED EIEDIQEITVLSQCDSPYVTKY YGSYLKDTKLWIIMEYLGGS ALDLLEPGPLDETQIATILREILK GLDYHSEKKIHRDIKAAANVLL SEHGEVKLADFGVAGQLTDIQT KRNTFVGTPFWMV\PEVIKQAG YDSKADIWSLGITAIELARGEPP HSELHPMKVLFILPKNNPPTLE GNYSKPLKEFVEACLNKEPSFIP TAKELLKHKIFILRNAK\KTSYLT ELIDRYK\RWKAEQSHDDSSSE\ DSDAE\TDGQASGGSDSGDWIF TIREKDPKNLENGALQPSDLDR NKMKDIPKRPFQWLSTIISPLF AELKEKSQACGGELGGPLKEL RGAIYLAEEACPGISDTMVAQL VQRLQRYSLSGGGTSSH

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4982	35350	A	5023	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF\ QIITYSSYTQKVQLPKSTLKQRQ GPCPQ GAL
4983	35351	A	5024	67	599	SAAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLAK KPKKGKPHCSRNPVLRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLRNLLQNQVG GDKN\GGTR/VGLNFRKMPRJY PTE\DVPRKLLSHGQKNPFSQH V/REKLRSITPGTIL\ILTGRHR GKR VVFLN
4984	35352	A	5025	101	202	PVPGTSSCTDRYHYKKH**KIN TKLVSKYILNM
4985	35353	A	5026	2	562	LRTVPDLPGRRFRAMRTGQRR* PELPPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVV SVCTATGAWNWLIDPETQKVS FFTSLWNHPFFTISCITLIGLFFA GIHKRVVAPSIIAARCRTVLA EY NMSCDDTGKLILKPRPHVQ*QS SLIVMGLRIAFLRISDTAKSHKG FLLRLDM

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4986	35354	A	5027	1	2090	MGAVFFMLFSWWITSGHIQLLC TRRRATVSTHQEFVTVSPFSL GLVVSGCLDADTAMPGSAEEQ FQWQSQDGQKDIEDELTTGLEL VDSCIRSLQESGILDPQDYSTGE RVIHFGKTLGLSSEDSIMEKG QMVKEVTVTPQVSVLKANETM ASALCGQEGHDDPLLI.TVQMS TGNHYIKDNSLFPWVKWPSLLS QSALQLNSKPEGSFQYPASYHS NQTALGETTPSQLPARGTQAR ATGQSFSQGTTSRAGHLAGEP APPPPPPPPREPFAPSLGSAFHLPD APPAALAAALYYSSSTLPAPPR GGSPLAAPQGGSPTKLQRGGSA PEGATYAAPRGSSPKQSPSRLA KSYSTSSPINIVVSSAGLSPIRVT SPPTVQSTISSSPIHQLSSTIGTY ATLSPTKRLVHASEQYSKHSQE LYATATLQRPGSLAAGSRASYS SQHGHLGPELRALQSPEHHIDPI YEDRVYQKPPMRSLSQSQGD LPPAHTGTYRTSTAPSSPGVDS VPLQRTGSQHGPQNAATFQ RASYAAGPASNYADPYRQLQY CPSVESPYSKSGPALPPEGTLAR SPSIDSIQKDPSKYPILCDGGNPF CALVYRPSSRERASSL/LKSMCY Q*NRLYPKFRRVLGSGFEGMQ RRFCASKGIKGRFCGSSLEQDC EHGGQHPCYPKLVPTLWNP HQ REGNQKNSERV
4987	35355	A	5028	123	3825	
4988	35356	A	5029	1	593	MQVCSSGGRILRVSGTERQLRR EGGRFCLGRGVRNLREGGALR APFTAPSLTALPPDIVDIKPAN MEDLTEVTTASESHPHHCNLFV YSSSKGFLRLCDMRAAALCDK HSKHPCDDIGPIQIIQGHRTSR GWMIIIPALQSTFRCRMDEQNL RAFLAPRLCDFSTSQPQGSPEQ PVMSGILISPWTKPSRSSVFSM
4989	35357	A	5030	1	894	

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4990	35358	A	5031	1	3115	RQICSMASELGARDDGGCTELA KPLYLQYLERALRLDHLRQTS AIFNRNISSDDSEDGLDDSNPLL PQSGDPLIQVKEEPPNSLLGETS GAGSSGMLNTYSLNGVLQSES KCDKGNLYNFSKLLKSRKWLK SILLSDESSEADSQSEDDDEEEL NLSREELHNMLRLHKYKLLHQ NKYSKDKELQQYQYYSAGLLS TYDPFYEQQRHLLGPKKKKFK EEKKLKAKLKKVKKKRRRDEE LSSEESPRRHHHQTQKV
4991	35359	A	5032	1	1522	MVAQASGQTIREAEVGGSLTA QEVEATSILLSDESSEADSQSED DDEEELNLSREELHNMLRLHK YKLLHQNKYSKDKEWMSQLA ALNYLAGGDEQKLLDLSYSP QNRQPAMAKAHNNNNNNNN NNNNHNKNPKRLLDERELTY STATQSFDRNTRSFDEDAKES RAAALRAANKSGTGFGEYSYL ANPSIRAGEDIPQTIFNGKLKG YQLKGMNWLANLYEQRLERL RFLQLEQEHTCPQEGRAERLGR QPLKLWALLHFIMPTLFDSHEE FNEWFSKDIESHAENKSAIDET KLKKVKKKRRRDEELSSEESPR RHHHQTQVFAKFSHDAPPGT KKKHLNLSIEQLNARRKVVLSIV KKELPKKTLTYTQDAPFHVVITS NQLVVQDVKYFQRVKQYQMV LDEAQAALKSSSSLTRSNARYPL VSSQRKIHDQQVTTDKSSKMDP KEEYIPAKHEMENTKLQFYLS AIGKQVVRWKILLQFQCRNRL LLTGTPIQNTMAE
4992	35360	A	5033	1	974	MGFHHVARAGLELLTSGMCCY FAQDLRPEQSIKASLQRIILRKY EKCGHHNLQLKKGYKSVDEYK VHKGSYNGFNQCLTTTQSKIFQ CDKYVKDFHKFSNSNRHMTEK NPFKCKEKGKSCVLSHLTQHK RIHTTVNSYKLEECGKAFNVSS TSLQHMRIHTGQKHYYQCGEM GIAFNKSSHLNTHKIIHTGEKSY KREECGKAFNISSHLTTHKIIHT GENAYKCKEKGKAFNQSSLT RHKIIHAGEKPYICEHCGRFVN QSSNLTKHKRIHTGDKPYKCEE CGKAFNVSSLTQHKRIQQQQQ QTIKQTKNLLNNNNKKLWV

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4993	35361	B	5034	22	684	
4994	35362	A	5035	1	1338	
4995	35363	A	5036	1	596	MGMTDMGKSKKKSQGPPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETAVINHKKRKNSPRIVQSND LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
4996	35364	A	5037	787	1692	
4997	35365	A	5038	289	1338	
4998	35366	A	5039	982	1347	
4999	35367	A	5040	1	780	
5000	35368	B	5041	148	334	
5001	35369	A	5042	2	545	
5002	35370	A	5043	1	732	
5003	35371	A	5044	1	1110	
5004	35372	A	5045	1	1170	
5005	35373	A	5046	1	870	
5006	35374	A	5047	1	1254	
5007	35375	A	5048	614	1236	TARVAAARRRCQCWGSACGS ALTLPRSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSVPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5008	35376	B	5049	1	1281	
5009	35377	A	5050	2	893	
5010	35378	A	5051	1	1416	
5011	35379	B	5052	49	768	
5012	35380	A	5053	1	792	
5013	35381	C	5054	1	1461	
5014	35382	A	5055	887	1203	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS

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5015	35383	A	5056	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLFLEAACHDSDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5016	35384	A	5057	1040	1477	
5017	35385	A	5058	1	1422	
5018	35386	B	5059	1	1404	
5019	35387	A	5060	353	870	AWSSPRSRCPLHSRTPSLPRVEG QAHIGPGL/HRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS
5020	35388	B	5061	1	1612	
5021	35389	A	5062	2	429	WGHWASPRLWWAWGSPGPAG LKPPGTVAASTGFSQWLLYIETI SRTPVELELKNSKVRKDVLS/R GPHSLYLVDQAQLEHAMEIAK VSVQALQAYRAPPRMEQANP KTPPDANLYKKGPSPSPRRANT TRLGSRATKTIHPDS
5022	35390	A	5063	508	1007	PPLAQKQAVASQSHSPCGGFHR RWFRMRLTGEIMKIITCFKLVP EEQDIVVTPEYTLNFDNADAKI SQFDLNAIEA\ASQLATDDDEIA ALTVGG\SLQNSKVRKDVLSR GPHSLYLVDQAQLEHALPLDT AKALAAAIEKIGFDLLIWTSSRI QAVALASPLSNT

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5023	35391	A	5064	1	1670	MNIEFFDPPRIVSGLTLNRINIQH PFHLTGIRYCIDERQRTVNDVL QAHAGRVLQQYLPAPATATFR CQSRNRTENPQFLVCQWAGED QITQLLQEQWRVLIVMIFRTHN HMAGPRRWFRMRLTGEIMKIIT CFKLVPEEQDIVVTPEYTLNFD NADAKISQFDLNAIEAASQLAT DDDEIAALTVGGSLLQNSKVR KDVLSRGPMSLYLVQDAQLEH ALPLDTAKALAAALEKIGFDLL IFVKGTCLVLLVAFGLVTTTHFQ PCLFGVQNGEQETVQILLVGVV GGMERAERIIIPFTLAINNQPTT RLTKTIAQGMPIIQRNIPNPRIS LQPAPTPRHSANPATMQPHAQ ATPTPKPHTRTYPTRPPHPQRSA TPGTQRTPTPGPQTARDRAPKP DHTRPQTAHTAHTSNDPQQR HRTRQRHTNKQHPHPAPPRLPT LPQNNKRQKPAESDTRKHHTP HMRQPTAHAETTARNTQAAQH CHTQNTQPANRHATGDRPEHH QARDRTRIDPKPNPDPRITITGHT KGTTYAHKHTPLATHMTRPT TGHRHGTHH
5024	35392	A	5065	548	924	GLLRPRFSVNSPHFNTWLLSAN SINWR*YGFMPSSLILL*LNPM GRYSGASLVSRMASTTLPGHS IAMRQPVCGIFALTRAISI/AM WDFHVEDFMPERMALNLVLNS AI*LPKIFPARWMKFS
5025	35393	A	5066	33	424	CRFDESWCDA\HAIFVAPTLY AYDFYADKTLVPLTDALANTW QKQFPLDYGKGRLWGSVAFVI GSALTGKLVTMFDYRVILALLT LGVASMLLGFLIRPTIQPGASL QQUESTGWSAWLALVRQNWRF LA
5026	35394	B	5067	1	265	
5027	35395	A	5068	142	609	CLFRQVSAPHITRVCITRSAATI QTIDLNNLDTGD*LQPAFPPVW LISPGPFHPTPSVTRVPLEKEIRT FAQRLSVLHGINAPEFFDKPLFS SLVLTLRDEGYISDSGDAEPAE TMKVYQLQTNIVIIHKCFKAGF TLAVGNQFLLINKQRASHQN



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5028	35396	A	5069	983	1387	LVWKVIPWRPAWKITLCVLNS CRRACLFAPAT*TANRLQAVC/ WLQSANPSINRGTTLEKESRTVA QRLSVLHGINAPEFFDKAVFSSL VLTLRDEGYISDSGDAEPAETM KVYQLLAELITSDVRLTIESATQ GEG
5029	35397	A	5070	1	1815	
5030	35398	C	5071	1	354	
5031	35399	A	5072	1	678	MTDKQQGEKQKQKTEDKTKT KQKQRKNKTDKRRKTKTERNT QRTPERQTNTNQTRTKQ/RRPD TGVTTQADTRQDTSARR\LMRQP RSAAAWMAALRGARDPKLITM VPHSKISRSIVRKGLPMTETQRR TETSKNYRPREQQTRNRQQQD PRQQRTVQTHQQEERRETKDN NTHTKPHETLARRHRRHNIHAL AAADLVIEAASEVWKSCKRSL HSWRKFAPTNAIDH
5032	35400	A	5073	93	729	SADPRNRDTRAAKFTRDAGK TDC*NL*THIETPDPGDRYSRAG SCGPG/PLKRRLNVWKSCKRSL HSWRKFARHKRY*PLTLRQSLY TAIAAEIKNPERVAGLHFFNPAP VMKLVEVVSGLATAAEVVEQL CELTLSWGKQPVRCSTPGFIV NRVARPYYSSEAWRALEEQVAA PEVIDAALRDGAGFPMGPLELT GPDWAGPPFCCHLFGV
5033	35401	A	5074	145	1038	SILRLRQKRKQLTAYDFADNCD KALY*RNHRLIREILALVCAHD RQKK/YLPSLAGFL*LKNEINRL SVRGW/SRRRSFSVR*/PFTNTD RARSHFYQFVIIDELQSLFQSHA DRRNQNNGFVSTGSTHVGGFL TGQAVYSQVVRAAMNTDNLTF VNFCTVTEEQLTAILQTEQRER DRFTLTVRDQYAVLTLTHFTRT YVVVVAEGGVQQTSTGSHGHE LRTEANQTTAWDHVVETYAFAF TVWIHVFQVALTFAQRLHYRT LMLFFNVQSHVFIRLLFTTVDF EDNFRTGYRQFETFTTH

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5034	35402	A	5075	39	4329	YAPATFSAATQPTPKKINNPVP RNSAMHWQTRIQAQANGYWL EREQWLAVGEQWFWRMEWSG PHRAAAGRLCHHHGNDATWH RG*FHLCFRPCV**RIEQPQEGY AIIMETTPPGTGVNFIVSDPAF DKGYAFDFFCLEPMSHAPDDH HRPEGDLIALAPGESTTSEMS LRVPVANCAVTTASLDSYYGE AMAIGERAPVALLDFAASARL AVGEALTNIAATQIGDIKRIKLS ANWMAAAGHPGEDAGLYEA
5035	35403	A	5076	1	625	MRASGTDEAVVLVPPIRMTLEQ ALEFIDDDDELVEGAAAFEALE MMGSGRDREI\RYGEGSP\WFDI \VLP CGGGITLTLHKLR\SAQPLL \AVLNRLEQKKPVGLRYDPQAQ SLVCLPTQTRTGWNLNGFEASI THRALRTSRYDGQYYCQGPR LTIRRTVIMTGSSDPHDTTDSNN DRVLGPSRYDGQYYCQGPRTL TIRRTVIMTGS
5036	35404	A	5077	3	516	ATLSCEVVLENLAASPVVTTLE YTLFDGER\VVHSSAIDHLAIEK LTSASLAFTVEQPQQWSAESP LYHLVMTLKDANGNVLEVVPQ RVGFRDIKVRDGLFWINNRYV MLHGVNRHDNDHRKRRGVGM DRVEKDLQLMKQHNINSVRNA HYRKRNRNKEVRTKKKIESIEEK
5037	35405	A	5078	3	678	ASYYCTRN\DLELVAVCDSRLS QRQALAEKYGNASVWDDPQA MLLAVKPDVVSVCSPNRFHYE HTLMALEAGCHVI\QAREM/CD TARKLGKVLAYDFHHRFALDT QQLREQVTNGVLGEIYVTTAR ALRRCGVPGWGVFTNKELQGG GPLIDIGIHMLDAA\MYVLGFPR /SVEDSLCGTIELHSGCILWLETS FALNIREHAIMNIRFCGDKAGA SVFPAHIYTATQR
5038	35406	A	5079	2	294	YSFMV/PIFGGRRWTVFSTAIL/I PCVWLGIQVQNPNT/PFGIFIVIA LLCGFAGAN/FASSMGNISFFFP KAKQGA\PVFAF/LGVNGVPQA DGSVMSLAMPH
5039	35407	A	5080	1	834	
5040	35408	A	5081	2	135	QYASALVSTAIALLV\CLAFLY PAAN\SEIHL\GVLSIFWGDPDG

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5041	35409	A	5082	1	324	MQGGYNIHPLIDALDDAKI.LAPI AAKALSHTLLMFDNFYDVEEK AKRGNEYAIQVMQSWAD/AEW FLNRPALAEKLTVTVFVKVTGET NTDDLSPAPDAWSRPDIPLIAL GC
5042	35410	A	5083	1	866	MGLAQAKLLIEAPVNGGRNYN GPKVAKFLVGGASLNDVYLHQ HDKYRYDRYHLIRNREKTIIM PEWVTQNMNGRGVNRLDDVN RPKSPEIKNDIRLFRQELRDAAY HFQGDADNDQLSVIPLVGLGK SSLLIKITIFHRMRWAEQNLSICS SSFNRPAIFVRNIIQLLREGKKV EITVGDKHENDFYIPEDEPFKIIG ALPYLYEINLRRFLSRLQYYVN TDQLVVRVWKEDDNITYHLAK GWWGDDKWMVITGINKLDPR AWRLDLENAILHDPQLELAPQ REKELE
5043	35411	A	5084	1	3483	VMFFFLPGLLMASWATRTPAIR DILSVSIAEMGGVLFGLSIGSMS GIL/SLGVVSETLWDT*C/HSWS RCPAH*SG**Y*/VLALWLTSPL LFAVGLGVFGASFGSAEVAINV EGAAGEREMNKTGLPMMHGF YSLGTLAGAGVGMALTAFGVP ATVHILLAALVAQIAAWYKAL QEQIPDFIPRAPQRQMIADVAK TLAGEEGRHLAIEAPTGVGKTL SYLIPGIAIAREEQKTLVVSTAN VALQDQIYSKDLP
5044	35412	A	5085	1	848	MLVGKVVVSEGASFRTHGAVD TSKAYVSLENSGWTHIADITTTN QNTLLNLANLAMSDANVIMMD EPVTRSSVTASAENFITLTNTL SGNGNFYMRTDMANHQSDDL NVTGQATAGDSLTLVTTGGGD AAFTLGNAGRVFDIGTYEYTL DNGNHSWSLAENRAQITPSTTD VLNMAAAQPLVFDALDVTRE RLGSVKGVSYDTAMWSSAINT RNNVTTDAGLRAQAIKTVHHR QNRLIHFSLNGSTFNVYRHFRR TKTCPKDAETNGKEQGRCQPE CQT
5045	35413	B	5086	75	1777	

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5046	35414	A	5087	1	860	MKAPGLPADQQFFADLFSGLV LNPQLLGRVWFASQPASLPVGS LCIDFPRLDIVLRGEYGNLLEAK QQRLVEGEMLFIPARAANLPVN NKPVMLLSLVFAPTWLGLSFY DSRTTSLHHPARQIQLP\SLQRG EGEAMLSALTLSRSPLEQNIHQ PLVLSLLHLCGSVVNMPPGNSQ PRGDFLYHSICTWVQDNYAQP LTRESVAQFFNITPNHLSKLFAQ HGTMRFIEYVRWVRMAKARMI LQKYHLSIHEVAQRCGFPDSDY FCRVFRRQFGLTPGEYSARFQG
5047	35415	C	5088	86	601	
5048	35416	A	5089	1	870	
5049	35417	A	5090	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE/EEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEAKTQ
5050	35418	B	5091	1	552	
5051	35419	A	5092	2810	3117	LTLNSHMAPALIPILAMSAPMT PMKN/LSQVHAQGLVIRDLPLIA SNFRNTEDLSSYLKRHNIVAIA DIDTRKHAACAVPNTLVARGL RKHLKRVAAPQHWIAG

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5052	35420	A	5093	2	1902	LKYPMKRVGKRGEKFERISW DEALDTISDNLRRLKDYGNEA VHVLYGTGVDGGNITNSNVPY RLMNSCGGFLSRYSYSTAQIS AAMSYMFGANDGNPDDIANT KLVVMFGNNPAETRMSSGGVT YYVEQARERSNARMIVIDPRYN DTAAGREDEWLPPIRPGTDGAL ACAIAWVLITENMVDQPFLDK YCVGYDEKTLPANAPRNAHYK AYILGEGPDGIAKTPEWAAKIT SIPAEEKIIQLAREIGSAKPAYICQ GWGPQRHSNGEQTSAIAMLS VLTGNVGINGGNSGVREGATG SAVGEVVFNTSMTGYQEILTD\ LPIPSNRY\SYP\ILAMSAPMTP MKN/LSQVHAQGLVIRDLPLIAS \NFRNTEDLSSYLKRHNIVAIA\ DIDTRKLTRLLREKGAQNGCIIA GDNPDAALEKARAFPLNG MDLAKEVTTAEAYSWTQGSW TLTGGLPEAKKEDELPFHVVAY DFGAKRNILRMLVDRGCRLTIV PAQTS AEDVLKMNPDGIFLSNG PGDPAPCDYAITAIQKFLETDP VFGICLGHQLLALASDVEKNVV MITAQNHGFAVDEATLPANLR VTHKSLFDRYVTGHSSHR*TG\ FSFQRHPEASPGPHDA\AP\LFD
5053	35421	A	5094	8	456	
5054	35422	A	5095	377	1228	KQARGRLCPAKPQGWSCPRPW QPTFC/GQCDLKVRPGVIGDHF GALKFDCPTGFRITCLGRITPLFL PSSPIWNGCIFPIPVPGGDCGEG VQIRSLSCMVHSGSISHAAGRV EDALCGEMPFQDSILKQLCSVP CPGDCHLTEWSEWSTCELTCD GRSFETVGRQSRRTFIIQSFEN QDSCPQQVLETRPCTGGCSPQA RPAAIRQCIPACRKPFYSYCTQGG VCGCEKGYTEIMKSNGFLDYC MKVPGSEDKKADVKNLSGKNR PVNSKIHDIFKGWSLQPLDP
5055	35423	A	5096	1	519	

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5056	35424	A	5097	1	743	MCPAIDAVLVYVNRKWTNLSDPMPVGMGTGVKYVLMSAPATTASYIQLDFSPVVQQQKGKTIKLADAGEALTFP/RGVMPKA/PPQLLVPATFLSAELALLQKSFHVNIQDTMIGELPPQTTKTLARFIPEVAVAYPKSKPLTTQIKIKKPPKVAMKTGKSLHLHSTLEMFAARWRRKAPMSLFLLEEHFNLKGQHSLHENQLQMATSLDRRGN/YTGFITSYLEEAYIPVVNDVLQVGLPLPDFLAMNY
5057	35425	A	5098	2327	3435	KTTTLEDNLGNTIQDIGPGKDFMMKIPKANATKIKIDEWDLIKLKSFCTAKATTKRVNKQDESLRSHYE*WGMLTDCVVMRDPNTKRSRGCGFVTYATVEEVDAATNARPHKVDGKVVEPKRTVSREDSQRPGAHLTVKKIFVGGIKEDTEGFAFVTDDHDSVDKIVIPKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGRGGGFGGNENFGCGGNFSGHGGFGGSHDGGGYGGSGDGYNGFGNDGGYPGGGPGYSGGSRGYGSGGQGCNGQDSGYGRSGSYDSCNKGGRGGFGSGSGSNFGGGGSGYNDFGNYNQYSNFGPMKGGNF/GGRRSGP*GDGGQYFAKPPNHSGYGGSSSSSS
5058	35426	A	5099	1	636	MRDPNTKRSRGFGFVTCATVEVDAAMNARPCKVVGRTVPEKRAVSREDSQRPEDTEELHLRDYFEQYGKIEVIEIMTDQGSKKRGFAFVTFDNHDSMDKTVIQKYHTVNGHNCEARKALSKQEMARASSSQRGRSGSGNFGGGRGGFGGNDNFGRGGNFSGHGGFGGSHGGGYGG/SGDGYNGFGNDGGGSYNDFVNYNNQSSHFPGM
5059	35427	A	5100	1	3622	MTGICYTEDERSYKKNAQPTAASKKQKETQKFCLRVDGQQKVKLSVLQEKSQTLVQLKSQKFLGHPTAGRGRSELCLDLPDPPEDPVALETRSVGTWVRERDLGMPDGEAALAAKVAVLETQLKKALQELQAAQARQADPQPQAWPPPDSPPVRVDTVRVVEGPREEVVASTAAGAPAQRAQSLEPYGTGLRALAMPGRPESPPVFRSQEVVETMCPVPAAATSNVHMVKKISITERSCDGAEMKWEDQNIGD

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5060	35428	A	5101	1	782	MRRRLQLDSSLHPPSCFSSTLK CGKAAAAACDSSDQIQERLQT GHLPCASHTICPPNHHSQSSTLR PPLPPPHNHTLSHHHSSANSLN RNSLTNRRSQIHAPAPAPNDLA TTPESVQLQDSWVLNSNVPLET RFWCCQRFLVFPGLQLQHLTSL LPVWSHGALPVSLCIFTWLSSH KDTSHFGLRVHLLSLPLEAKYS FYPGCPVLEPAPNPLKGPWCLW GVGTFRRYCTTFLFNESEPKDL VGEKFKSDRLCREAHLQE
5061	35429	A	5102	3	1864	
5062	35430	B	5103	1	525	
5063	35431	A	5104	2	351	RPAVGAEKSNPSKRHRDRL\NA EVL DHLASLLFPDPDIISKDKLS VLRLSVSYLRVKSFFQVKRQRR EIHGRNCQKKRNQNLKDRGWQ WQMPKMWMTTRANEGPCRS GPEHWTPRP
5064	35432	A	5105	1	375	RPLQKQRPVGAEKSNPSKRHR DRLNAELDHL\ASLLFPDPDIISK LDKLSVLRLSVSYLGVSFFQG QGLAVADAEDVDDHTGERRP MSFRRPRALDTQALRRTQFGLH LLMVNIAGLIATDRL
5065	35433	A	5106	407	910	NVTPAHYDEQQNFFAQIKGYIR CILFPDQFECLYPYPVHHPCYR QSQV*LDNPDYERFPNFQNVVG YETVVGPGDVLIPMYWWHHI ESLLNGGITITVNFYKGAFTP KRIEYPLKAHNKVAIMKNIEKM LGEALGNPQEVGPLLNTMIKGP IQLACQGSRPPAR
5066	35434	A	5107	237	908	HEKPGRQRETRSQNHSHHHHHH HHHHQEIRIQTFTERP*EDTER SDCPQAKKRSPRRNQPC*HLDF ELPAARAATQPVNSGARAGRA GATVPRHTATLLLLHQRRDYA GGSLCDIDRAPDAKQGGKS*ES ETDSRFWKGTVC*DHTAGWVH GRPTTPHHSSPDSRNGGFQLHQ QIALAAGWREGASRPKQEPLQP GPEQGQRRGRREPVGKAPSG HQSHPAE

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5067	35435	A	5108	57	873	SGLCTAAFHHQMEVVHT*SVSS RS*R\PTTPVIAQWAHEQSGHG GRHGGYAWTQQHGLPLTKAD LAMATAECPICQQQKPTLSPRY GTIPQGDQPATWWQVDYIGPL ASRKGQRYGFAYLARNVSAKT TIHGLMECLIHGIPHIASDQ GTHFVAKEVRQWAHAHGIHW FHHVAYHPEAGGLTEWWNGL LKSQ LQRQLGDNTLQDWGKVP QKAMYALIQCPIYGIVSPIARIH RSRNQGVKVEMAPFTITPSDPL AKCLLPVLVTLRSAGL
5068	35436	A	5109	1	311	QITMQPELPIMNWVLSVPSSHK MGHAQQH\QEVAQMPRVSTPA TLPSLPQPALMAPWTVPYDQL MEEKARARYAGTIQKWTA LQPLSRTSLKDSGEGTSKW
5069	35437	A	5110	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWT VALQPLSGTSLQDSSEEKSSQW
5070	35438	A	5111	1	582	
5071	35439	A	5112	1	635	



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5072	35440	A	5113	2	1538	FFPIGFWRQHIPRLSVLLQHIY* VT*KAASFEWGPKEKAL*QV QAVVQVALPLGYPDPADPMLL EVSVADKDAGCSLWQAPIGES QWRSLGFRSKALPSSADNYSSF ERQLLACYWALVETECLTLGH QVTI*PELPIMNWVLSDPSSHKV GHEQQHSIIKWRWYICDWAVV GRESTTNGLAGWSETWKKHH WEMGEKQIWGRSMWMESEW SKTVKIFVSYVSAHQCVTSTEE DFNNQWDGMTCSVDTTTHPLSL TTSVIAKWAHEQSDHGGRYGG YAGAQQHGLPLTKADLAMTTA ECPICQQQRPSLSPQYGTISQGD QPATWWQVDYIGPLPSWKGQR FVLTVIDTYSYGFAYPEHNTS AKTTVNGPMECLHRHGIPHGI ASDQGTRFTAKEVWQWAHAH GIHWFYYPVPHPEAAGLIGWW NGLLSQLQCQLGDNTLQGWG KVLQKAVCALNQHPHYGTVSP VARIHGSRNQGVVEVAPFIITS SDRLAKFLLPVSSSTCSAGL
5073	35441	A	5114	488	966	ILVGSKGQSVCPGPSSSGTRGSS SPGVAVSNKAAATVGPQ*VTQ QEGGPGSRQRTRAGSPELVAG PSAVEGEEGSWTPGGPQVPRKR SAAPSRQR*HWLRCTPA*QRRG DWPRAAGRCHAARPPAAGSRA PTKISARPTRISRLGPRAASKAQ RLQRL
5074	35442	A	5115	197	421	KLKATMNSFHKS*SCALVSTRP CSPRGDPRATLTIPALVEPPCG TQDPKMAAEAPQRPGRKRLGRN LLTRRRPT
5075	35443	A	5116	3	5649	LLEKLQRRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESIQQ QLQTSLHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGGRDS LMSQAPISNQQA EVTPGRLGK QTDQGSQMIPSRDDST
5076	35444	A	5117	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSSER KPLENER

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5077	35445	A	5118	248	621	TDEPSLLSHTFCPKGALLSACSG ACPLSSGTQAGMPPSTEALQPC RGLTVPHQ/LG*RPQGMLWWK ALAADWSVEWQKGRRGLGKA LSVTSRTGRLLCR*GSAEAAAS PLAASPRSSRALGAGIP
5078	35446	A	5119	2	157	YLGRHLCFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER
5079	35447	B	5120	125	994	
5080	35448	A	5121	1	550	RRYRPRRVQDPGGPAEAERGPP RLLNARVHVCRAEASERAPGP CGRVSAHVERARDPRLE*QLED KAAPRQDFTQQLRGPEKQHRM VWQEKEDMHKQLVEASETLKS QAKELKDAHQQKLALQEFLE LNELMAELYSQKQK VWDKEEE MEVAMQKADMMWQEI*RSKK LRKRMLFSQMRWL
5081	35449	A	5122	135	638	GSFPGPAPLGQTLVTLGLAWQS SGWILRGWLVPRAKCSPRGQ ALAICLSLRGLGARSTWAETRP QGPRGSLASLCPAHMDLSIWKT GDGGPRSAFSKVHQGSLNTFG VDTAARRLSQARTAPSPSV\SAP SSAAAPASAGPPPAPGAPPTPA QALRPAPPSRPAER
5082	35450	A	5123	193	610	VGELLPFRFKISLRPFLALCLSSL GPCRQPHSGSVPA*NPLLGPRA KSSPHSGCGLAPFAIPELLRRLP LEGSAHCPAPEGAASPPTS WDS ADPPCRETSIFAPPRVVLTPGPS APQASPSQPLLFLTPRWDRLPES VL
5083	35451	A	5124	2446	2630	VGFFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLP SFKGF CLSLPGSWYYRHGPPRLG
5084	35452	A	5125	3	710	EDGDWDQRRGGEAGDQDQRR GGEDEDQDQRRGGEDGNRDQ KRDGENGDWDWKREDENKDQ DEKREGEDGNQDQRRGGEDGD QDQRRGGEDGNQDQRRGGKD GDQDQGRGGEDGDQDQGGREG EDGDQEQRRRGEDGE*DQRRG GEDGGQDQKRGGEDGNQDWS REGEDRD*HWRRGGEVGE*DQ RRGGEDGE*GQRRGSEDGDWD RSRGGEDGDQDQRSVGHCHS QGPPASGCVS

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5085	35453	A	5126	506	882	RCSGQGGFDGNGGTKALPTISA DTTRCWRTLRLVTQMTCRFRRF KAFFIGIMSCGRTGRILFPPCSS MSWIPCRANKS*GNVISQSPSK NR/WQIMMVIQLLNFYLPGDFV SFRIMLKGNWEVTRTRG
5086	35454	A	5127	107	1327	ERRKRAVGGFDLVLGEQPSDKI FR*VIV*GLALWLPLSKSFVIPP AELAINPSAKCKTDMTVMEDA VEVR*VWLQD*GLDSLEVLLDS FGPVRDCSKDNGGCSKNFRCIS DRKLDSTGCVVGLPCKLVVDS SGCYDRHIGVDCSDGFNGGCE QLCLQQMAPFPDDPTLYNILMF CG*VELPARPLDGRSCQLITETC PEGSDCGESRELPMNQTLFGEM FFGYNNHSKEVAAGQVLKGT R*TSYT*N*YQQLPDGLVVATV PLENQCLEEISEPTDPDFLTGE CAFSTLFGYPVLQHWKVR SVM YHIKLNQVAISQGEHCCRLSCD GATSRADFVALLDQFGNHYIQE AIYGFEESCSIWYPNKQVQRRL WLEYEDISKGEWHACWQILSTF PWIVISLHNCLP
5087	35455	A	5128	3	23	FYSAFLVADKVIVTSKHNNDTQ HIWESDSNEFSVIADPRGNTLG RGTTIT*VSIPPSL

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5088	35456	A	5129	1	2462	MRALWVLGLCCVLLTFGSVRA DDEVVDVGTVEEDLGKSREGS RTDDEVVQREEEAIQLDGLNAS QIRELREKSEKFAFQAEVNRM MKLIIHSL*NGIFLERLISNSS C\ALDRSLISLTDENALSVNE* LTVN\IKCDKEKNLLHVQHTGV GMTREELVKN\LG TIAQIWDQ ASFLNKMP*SHRKMGPVNLPEL IGPVWVSGFLFPPLVADKIVIT SKHKQIPQHIWGVWTPNGIFL *LLDPRGKHS*DRGNRQFTLCP *KEEASDLPWNLDTIKLNLRQKN IHSFIKLF LIYVW\SSKTETV*GA PWGEEEEAAKEEKEESDDEAA\V EEEEEEKKPKTKKVEKTVWDW ELMNDIKPIWQRPSKEVEEDEY KAFYKSFSKESDDPMAYIHFTA EGEVTFKSILFVPTSAPRGLFDE YGSKKSDYIKLYVRRVFITDDF HDMMPKYLNFVKGVVDSDDL PLNVSRETLQQHKKLVIRKKL VRKTLDMIKKIADDDKYNDTFW KEFGTNIKLG VIEDHSNRTRLA KLLRFQSSHPPTDITSLDQYVE RMKEKQDKIYFMAGSSRKEAE SSPFVERLLKKGYEVIYLTPEVD EYCIQALPEFDGKRFQNVAKEG VKFDESEKTKESREAVEKEFEP LLNWMKDKALKDKIEKAVVSQ RLTESPCALVASQYGWSGNME RIMKAQAYQTGKDISTNYAS
5089	35457	A	5130	45	416	RWGLAMFPPLDNKSETLSQKK KKKDLCPHISFEMDLTTADAR WVQDAATRLLATTRCPPNSRG SR**ISWRAGCCPGGWAGPHW GHDGCL*PSCVSSS
5090	35458	A	5131	3	477	GRLPRHRGGEPGAAQPAQRQP RGGAATAAGAPRAGGGAAA GNARRCREAAARDPHHGECSG PEPSQCEGAHQRAQRAQGD* GGSGATGEGRRGHDSHNPLG RVRGSTLPPS**N*VGL*VPSWP QCGPAHPPGQHPALQEIHQRLP LESGGHRVV

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5091	35459	A	5132	3	446	RTGSWGWSASQQRHRKDRGL DSAGSGWVSHILPVPAPPADA RPSASRWRROGSHPLPGRTECP SVQPLCLPPPAGHHRNHSIASPS QTTPPSRLPGSQDKSLFLPRDRR TGEGEHGMN*APLSAPGTSCRS GGSTSWLPEILGPTQ
5092	35460	A	5133	352	588	DIFKVGCGFLFKRLRCQQRFFL LIFSSSTQSA*RVSNGPYH*EIK MAVYYGELRKNGLIQESCDNIQ PRQGSFNMDSMQ
5093	35461	C	5134	13	144	
5094	35462	A	5135	587	1078	LSQRFPLSSRIKLQRLSLQNGIP QIKELDYLFRTNSNQINFNLLSH RVRARPPAPPGRPNPSPGPDPPP EPPARAGSSRRGPGEPPRRQPQ RRFRRRGPDRPGRLSRGL*RRR ARPASPQPRQHHSRGPAGRPGV APRRPAGLAAAERLTARGAA ASPAIPRA
5095	35463	A	5136	44	455	HLNRNTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
5096	35464	A	5137	101	861	LIGYQPKMSRTRRIHSRILPERIK YLGSQIRDVKDLLKENYKPLL NEIKEDTNKWKNI PCSWIGRISI VKMAIL/PQAICGKLKLDPFLTP YTKINSRWIKDLNVGPTTIKTLE ENLGNTIQAIGMGEDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNROPTWEWENIFTIYP SDKGLISRIYKELNQIYKKK\TR NPIKK*VRDMNRHFSKEDIYAA HRHMKKCSSLLDIREMQIKTTM RYHLTPI
5097	35465	A	5138	3	314	LKSFCMAKETTIRVNR*PTEWE NIFAIYPSEGLIYRIYNEATNK DLVRRSGPLKTPKKKSQTLVLN LVTFKRTPALSEEKESAQVLWQ FKKPECVLTSKR VH

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5098	35466	A	5139	1	1278	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPEMQGWVNICKSI NIIQHINRTKDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIMQEKEIKGIQLGKE EVKLSLFADDMIVYLENPIVSA RNLLKLISNFSKVSGYKINVQK SQTFLHTNNRQRESQIMSELPFT IASKRIKYLEIQLTRDVKDLFKE NYKPLLN
5099	35467	A	5140	1	430	GGVFFLRTPTDCCGMLQGAAG STGFYASEARPRGPACSLDRGS SSLLSWGLHQDPLFPAAKQHRR EAGRADQNSPRPRLSTG*QTPT L*RRPAAATGRRRAQPPRATSV SAPASPPCPRARPPHARPPRVL ACQP*ATAPGP
5100	35468	A	5141	1	346	
5101	35469	A	5142	3	1336	
5102	35470	A	5143	5	283	
5103	35471	A	5144	1	1368	
5104	35472	B	5145	1	838	
5105	35473	A	5146	1	962	
5106	35474	A	5147	19	87	
5107	35475	A	5148	41	831	GLQNPKHQSSQLVDLKMKKSL LQCMFQYLIVLQ*YLK*YLGTO LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWIGRINIVKMA ILPKDPTTAQLSPRGSTAQKGH WRPCPLPPRGVPRSPRGPTSH HHDPCCPGGAPVRNTGSEWQR KLRSQPKSDWAGRAQAPSLGE GGAKNGKSHPGSHRAFSLPRAP RRLGPGSQPGRFRGFLKQARGR AGEGHSAILLAPESPNAQVSNV TSATYRSNLSGLPRPCSVLLG

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5108	35476	A	5149	1	2233	MKAEIKTFFETNENKDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEKET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITTDPTETIQTIREYYKHL ANKLENLEEMDKFLDTYTLPL NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE LRIKYLGIQLTRDVKDL\FKENY KPLLNEIK\EDTNKWKNI PCSW VGRINIVKMAILAQGNL*IKFKN AISIKLPFTFFIGL/EKNLTFKFIW \NQKRS\RIAKSILSQKNKAG\GI TLPDFQTITYKATVTKTA\WYW YQNRDIDQWNRTEPSEITPHIYT IL\FDKPEKNKHGGKAS\FIK W\CWENWLA\ICRKLKLDPLT PYTTINSRWIKDLNLRCQIIKTL EENLDNTIQD TDIGKDFMTKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPIEREKIFAIYP SDKGLISKIYKELKQIYKKKNK QPHQKVGEQYEQILLKRRHLCS QQTHESMAHHHWPCREMQINT TMRYHLTPVRMAIHKSGNNRC WRGCGEIGTLLHCWWDCCLV QPLWKS VWRFLRDLELEIPFDP AIPLLGIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYAAIKID
5109	35477	A	5150	1390	3491	DLTTRTACAVPGWGCSSRATC QARGWRLLSSPPHPSGVQPLLC HLPYPPSPFSLLSNLTPFLRAFPR SLETS*KWART/WPGAVAHAC NPSSLGGRGRWIT*GREFETNL TNMEKPCLY
5110	35478	A	5151	310	445	YLTKIWP GAVAHTCNPSTLGGR GGWIT*GQEFETSLANMVKPHL Y
5111	35479	A	5152	44	1132	PQVIHPPRAPKLELEQEPWRWIH DLNQDTPSALCQH*RTC*HRAE GVSWFKSWIHLGGSCNSSLGA RGGWIT*GQEFETSLTNMAKPH
5112	35480	C	5153	183	323	
5113	35481	B	5154	504	2474	
5114	35482	C	5155	66	269	
5115	35483	B	5156	2414	3096	

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5116	35484	A	5157	9	239	HHHYCQH HHHHHHHHHHHHHH LPAPCRNLRV*PVCFRYKLWFH YGKQHLLFLDFLLSHSEWCEM VSHCGFDLHFSDD
5117	35485	A	5158	3	387	TDTKPLSCSSCPPRGKKPVSHR DQ*RRWGRRRCRGEPTACWS AGALQF*KPRSRGGRTSKMTSG PSAEKGGG*AGRKPGRRHFGRR VLRHSCVLPVARELWGRHGPC GWRQKNVPWKWSELLPVVAP
5118	35486	A	5159	1	277	MPPPPPPSESPGPGVGSRLPPG PAVTGNEKELRGNP*VGLAPPR PRFRASRREGVTGKVHRPNRLQ LRAPPKG*SDQRGQNVPPSEAK SLC
5119	35487	A	5160	1	3285	
5120	35488	A	5161	3	194	IPLSLQSKEVGQQLQDDLMKVL NELYSVNQMGCLAL*QAEGSSI WQLAAIVHQQQN*TPSWGQ
5121	35489	A	5162	520	844	VQAPGKCHAQMPAAPVPLG RSRNPGRLASAVPVSSLLRFLPF LQIPPSDILPLSFEAVPSSPAAE SGLHPCTRRRKRARPSC*VPGL LLSPQPHPPPHVWRKGIL
5122	35490	A	5163	1	794	FRGFLDRGDCAALPCTYPHSPC SH*GGNCLPSLLTRPCVKA*PQ MSGRKSSMRRWRRQRSRLTAGT SS*TPTSSTMC*ALVGSSTWNC MLQAGSTAPGAGTPGSRPTWS SSSTCSWTAPSGRARCACASSS SCAMSAARRGWTSPACWRRTS RAWWTSSPACASSATASVAA STASTWPAARTTGGTAESSARP ARRASCTGSPARSCWRRRRPPT PSPGRPAPPSRRTRRAQAGTSA LSPGACFGPRSCC*SSTCSSLSV APY
5123	35491	A	5164	3	57	RIGQGVPVVHS*VEGGPNVISIV LEYLRDTPVPVVVCDGSGRAS DILAFGHKYSEEGG*VKVFLWC THKWKEDPM
5124	35492	A	5165	1	1326	
5125	35493	A	5166	2	337	YSVTMTPGKLRTLCEIDWPALE VGWSSEGLDRSLV*KVLCPEL VPSGGFLVSLTSRMKPQTLTGS VKVLKDGMSGVCSFRCDVSR VSSFWWVRGLAGWSTTLRLKL
5126	35494	C	5167	339	548	



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5127	35495	A	5168	3	413	SQAFLPAASRRERPPEPVDPKA TDPRSGTRRLPPRLPCQWTTPE HSHTSQLNLSRAFPKEPNPAAT Q*NPSGASPRERPHARAQEDRN GEC*EGNGSRPDLEEEASTPRA SPTPSD*PLWLHPPRPLVLETPL LQL
5128	35496	A	5169	3	479	FLHSTHIYWAHSMHELLKTAV VSISGQCTSLNTESGIWGGVPE NAR/CPPAEGTVPASLQPRDPPR LPGSH/ASLPSASPPSRHVTWPP EP/EAAGPKPS*IRCRWPPAGAT TKANPKESGRLVESMLPLPKSR SAPVTFSAFACSGLPERVHEVF RVGKLR
5129	35497	A	5170	81	329	QSVSSPSWFPQFPVQVQKVPCY QVYRGDLVV*KHVAPPPSLPSS FSGHVRHDCFPFAFHDDRKFPE ASPAMLPVSSSLGPHYL
5130	35498	A	5171	335	467	MPSTPTARKPESPEALARVESIA CLPSPAPHECSPQASEETG
5131	35499	A	5172	1	2424	
5132	35500	A	5173	2	304	CLTKNTSATREKQVTELHRRSK LQPEPAKTALQTVIE*KDITLC *VKEHLYIVACWALRLHLVFLP TKAGISPALMKVSYPGKPLTLK QLGRLVILQEQ
5133	35501	A	5174	44	286	GVQNGVEELILVRRMQKSPGP GEMESGSLEKEPLGTQTGPVPS EGTE*TQGPRTPSLQTQGPQRT PSLQTQGPNTPSL*TQGRLRTL SLQTQGPNTPSLQTQGPRTPS LQTQGPQRTPSLQTQGPNTPS
5134	35502	A	5175	206	384	KRVFAHQADGRARSGFISSAGP GSQAGPGQGTG*QREDVEAAG QPGSTAEGVRT*SDPG
5135	35503	A	5176	270	818	RNERKPSQRTAVGLGAGQLQP GQPGVQSEEPGLEAGCAAGV LPGPAEQDREGIYSK*KRVFAH QADGRARSGFISSAGPGSQAGP GQGTG*QREDVEAAGQPGSTA EGVRT*SDPGSSHPAAAFYEN IQDGEALGRCGAKRTATAAP*Q RG*EGF*AGPTAAEKNEEGPPP VFSLFNHL
5136	35504	A	5177	122	436	LTSLSAISTKAKVSPLCSARAC SPSPAARAALGSPGFTC*GAGV APTPVPVAAPAPATAPATAVAA AATTTVVSAMFTRRATRAAA ATGAWGFVAGAPWPLQT

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5137	35505	A	5178	20	1341	MRRCVAAPLAHRW*QKLGLPG CTPTVCSFLSPQPPRARSSSAT LSSGAPRRAATPQPQTTPSSVQ PCAATPCARGGRPAPAGVTWP TTRPSMA*RTS*ASTTAPRMAP PRSHACARSHRPETARSARTAP RSAITRAFTSTRPPPTTTRTVAS SGTHTSGLSPTASRLARCRAAG RSSTIIT*TCRSPTRLCCPAQRPL PPASSPSSSRSTRSVWTRRCTRL RWTSSRPPSWMALRTVGTSTGP TA*RSLRRQCASTWRSRPSTSA PPSWCARWAAT*PLPSACQRK WSMLWRTGTARVSTSACGAAP STSRSTSRPSTPMLRAPVPAGW QPPALHPQPPRPSHTRQPWPSA RRSCRWRTCTTRPASSTSPRA T*TSHWPPTTRWRMSRCSTPTK TNCTCMRGLGTCQAGRLRGCP WPPGPSWAPWSRSWPCSLCSA
5138	35506	A	5179	47	598	ASGPASIVVLRQQFIKFFLDEICS LEERVWCRKLCLLYILWKEPR AVQAKSRCSDIRRELYRPVSLA GLSGDFLRAGRYSAHTVNGAW SAWTWSQWA**SRGLLLALH NMLKIIIAFCSLQVATRIQSTFIS SWHLSPSLGSRFSLYMSFGS VLCPLFISHDTSSYSTKSFQSFSC LGW
5139	35507	A	5180	236	690	LQNWSYLAEQCWNGGFIYLM LRRFKHKAHSTYNGNSSNSSEP GETPTL*LGDRATAKKGKRTKRF GVISRPPANKAPEESKGSAGCE VSSDPSTELNGPDPELGNGHV FQLENGPDSLKEVAGPHERSE VDRGTEHRIPKTDAPLTTSN
5140	35508	A	5181	2	480	WPFWAMVQRPSSAILCGPATLP PNCRGACCARCRATGALSAYP AIHRPATRPPAPPAGPLTSPPL SVQNSNPDPSPARSPGPAAPR HARHSPSELPALTLARGSSAL CTKLKVEAAA*SCSASAWNWR LLPRNHVDSRCQPEPDGARARD GRGP
5141	35509	A	5182	3	153	
5142	35510	A	5183	3	239	
5143	35511	A	5184	1	394	
5144	35512	A	5185	1	435	
5145	35513	B	5186	84	2068	

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5146	35514	A	5187	149	832	DAGLSWREATRPGAPLHRPGC QDASTQMTRPGDPGSSALFPLP SP*PEREELPMSSRRSPKPELPG EACSRRPPTRRPRRTATRGPPLN GRLPRARLPVSAGAGALGGGR CRRRVAPRRVTPRLATRPSGVA PRGSG*AATTKLSLAFGVTPLA LTPWSRTPFRKREERPPF*YPRP ATPEASPAHVENFRSNQTRYTS AE*SGQQLERPSIAEISAQATVE PRSTI
5147	35515	A	5188	45	312	AEAQGGAEAEHGGGGGPPAPS QGCPARAAGARGWQPAPSPQK P\TPSD\TPPP\RTQPPVTQPCHP VTQPPVTQPPVTQPRHPMKIPPP G
5148	35516	A	5189	15	549	PRHKEPESQAPGRRAPQAAAY QQAASPAR*QGGSCSRCPPG*A VEAAPAP*QALGCVSQGPA*V GPTRSPHPTAGLSRPHGPPSVRS TGWSPSSRPLQAQEAPWPVAPT HIPPLDPGQPHSCGLGAGCQP RAPAARAGHP*EGAGPPPPWP SASAPPCASAQPVLWLRFPRET KT
5149	35517	A	5190	1	2445	
5150	35518	A	5191	1	708	FSEGRNRFLNVGPTRFSTSRQTL MWIPDSFFSLLSGRISTLRDET GAIFIDRDPAAFAPILNFLRTKE LDLRGVSINVLREAEFYGITPL EKIKMEYCFSVCMYS*QVCFE MFLVRRLLLCEELERSSCGSVL FHGYLPPPGIPSRKINNTVRSAD SRNGLNSTEGEARGNGTQPVL GTGEETVRLANTIDSKYVAND DWLIFQYVDEEDLMNAIKDFSS VTKERTTFTDTHL
5151	35519	A	5192	31	330	YGGTATVQRWAESRHVPFPPS QEQNANKICSVCQEEKDSADSY GEIPWWQGPERCWPVRLMLAT LGDYKWVLTGIGTDS*LGFTIPT DHANAFSAKEIPQ

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5152	35520	A	5193	1	734	MISEVIVIQMLFLHAFSKVFSAL IKNNKKPLQDAQIKWKAISGLS GGMRRSECNRERDQVTRTQCR DISQK\RGPGD*GMATSKNGAM A*QLGPCQGDASTGNAEFGES AHAWSGGGRVPGVTGPDREEV GRSWQGTSCGGGTSGCGR LQ* DGVASRGRW/DPARPREQRAG VRQLAAPLGGP*SRRPWEPPGG SSCGRYLFAISSWSGVTV AQEG QRKRGS GK*RTERSGPGLGRRL PPLLLTV
5153	35521	A	5194	3	449	EGQRSSSPATALSSSGPPSLKM ATSKNGAMA*QLGPCQGDAS TGNAEFGESAHAWSGGGRVPG VTGPDREEVGRSWQGTSCGGG TSGCGR LQ*DGVASRGRWDRR DRASSGRESGSLHHS GARSLG APGSRPVEAPAAGSEAKTPG
5154	35522	A	5195	606	841	CTVGFALPVFY*GFSH*CSSGIL V*NSRFLCLCQALVSG*CWPH KMS*GGFPLLLLTGIVSEGMPV ASLCISGR IQL
5155	35523	A	5196	620	930	IPFISFSLIALARTSNTMLNRS ERGHPCLPVPFKGNASSFCPFS MILAVGLS*IALIILKYVPSIPNL LRVFSMKGC*ILSKAFSASIEIIM WFLSLALFI
5156	35524	C	5197	1	819	
5157	35525	A	5198	591	815	
5158	35526	A	5199	187	387	FFKTICFMRVRVKRPPNRLCVS NMAVYFTWVQAGLHCESYPEH L*WSCRLPRRLGGVRL*PLEGE
5159	35527	A	5200	1	1197	
5160	35528	A	5201	119	375	ILDISPLSDE*IAKIFSHSVGCLFT LMVVSLAVQKLFSLIISHLSILA FVAIAFGVLDVK/CLVHAYVLN GIA*VFF*GFYGFERSNI
5161	35529	B	5202	1	1053	
5162	35530	A	5203	2	157	
5163	35531	A	5204	12	176	
5164	35532	A	5205	2	223	QTVLEDRSPRARWIF*G**GTIC SIPIPSFWWFSSNLSHSFVCRSPP SSSPGGLPMCTCVSKFPWAVW PFSRY
5165	35533	A	5206	61	308	

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5166	35534	A	5207	487	898	DFAEVAYQLGISSGVCRTTDFH EPRMLLSDRSSGSFVTII\SVFLS FSSLKCL*SPLVHDALHQAHP GKSRLRFLGSMACCMKFTCPP TLSTVPSSTPFSFCSLIKTRSAT LLKLWSISLRFRLHSWSSAFRV
5167	35535	A	5208	9	191	IPQHIYPPKTKPGRI*ISE*TNNR L*NCGNDQ*LINQESRTRWIH SRILPKTNREPNHE
5168	35536	A	5209	1	1989	
5169	35537	B	5210	1	1488	
5170	35538	A	5211	929	1209	IPFISFSCPIALARTSNTMLNRC ERGHPCLVVFKGNASSFCPFS MILAVGLS*IALIILRYVPSILNL FRVFSMKGC*TLSKAFSVSIEII
5171	35539	A	5212	242	642	FSLKRSFTSLVSWIPRYFILFEAI VNGSSLMIWLSVCLLLMYRNA CDFFPLILYPETLLKLLISSSSLY LW*NSAVNLSGPGLFLVGRLLII ASISEPAIGLFRDSPSSWFSLGR VYVSRNLSISSRFSSSLFV
5172	35540	A	5213	747	885	
5173	35541	B	5214	115	1267	
5174	35542	A	5215	209	322	
5175	35543	B	5216	1	3321	
5176	35544	A	5217	390	655	CLFPVHYPRLHAMMHQMKNP VLVLGIGGFILGILGVIGGPVSLF KGS*KLLGLIETGKISLDHPVPG GTPTKMALYEHFMNTKEFGIE
5177	35545	A	5218	3	221	
5178	35546	A	5219	798	914	FVFLWDRW*YPLYHFLCLFDS SLFFSLLVLLAVYQFC
5179	35547	A	5220	12	460	YLCMLHEVLVLCFSVPSGHFSF SLN*LF*LAVPVTIFYQG\LSFLA QA*ASQVDFRQLCWQQEFQAS GS*LAGLHGSGIH*ARPLGSWL QLPFQESEWFCLSGVPGATVVS /CTF**SPF*LV*DGISLWF*FAFL *WPVMMSIFMCLLAA
5180	35548	A	5221	3	508	AERNGSRQGVGAGAGDHEVLQ LLPDKWKQKILCPVQLLRGAW SNYYSPDANRQP*VQGNALHF AECWPHGEDSQPTVPTSQGRM LAGPARHLPHPHVPSPSGLRG SDSEDTH*GTVAGSGCLHCLAP GHLHPGWPPSRVLPIDRSVHQ GPGRKAPPTPPRVTPLEFT

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5181	35549	A	5222	584	1052	LRKAAASGSFVFVAPDPNTDTG SSQCESESGSRGCSMGHQ RSL QH HY HHHHHHHHHQH HHHHHHH HLD TGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPSGHRCI*LT GIEAA*CHSL*PYQKDACHHFE EHSPPP*RPPHLPRHHLHPQPSS
5182	35550	A	5223	1614	2308	LRKAAASGSFVFVAPDPNTDTG SSQCESESGSRGCSMGHQ RSL QH HY HHHHHHHHHQH HHHHHHH HLD TGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPSGHRCI*LT GIEAA*/WS*PLT LSKRCVSPLR RAQSSSVTSSTSAQASSAPPEKK *L*PERPYSSPHPASVADLQMC LPLNRITGQTNRPLHRAILLRW MRSCNLLTCTVLSNVSFSELS YSRNTMCRG
5183	35551	A	5224	3	407	SVGLILPSSLQH HY HHHHHHHHH QH HHHHHHHHLHQ RKLAPPLC* ADLPTCAPHQGIRPFGGFPQTS GSPGLPVYAE EQGTERLSLQGT GCGCQAGLLCWGPPVASTSVG FSLESSVSPEQVPLSPGPAGTDA
5184	35552	A	5225	1	1287	
5185	35553	A	5226	3	1315	STMALLHSGRVLP GIAAAFHPG LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLP SVRKAE AQIAAKNLDKEYLP IGG LAEFC KASAEALGENSEVLKSGRFVT VQTISGTGALRIGASFLQRFFKF SRDVFLPKPTWGNHTPIFRDAG MQLQGYRYYPKTCGFDFGTGA VEDISKIPEQSVLLLHACAHNPT GVDPRPEQWKEIATVVKRNL FAFFDMAYQGFASGDGDKDA WAVRH FIEQGINVCLCQSYAK NMGLYGERVGAFTMVCKDAD EAKRVESQLKILIRPMYSNPPLN GARIAAAILNTPDLRKQWLQEV KGMADRIGHAGLQLVSNLQG REG\STH\NWATHSPTKLGMFC FHRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAIH
5186	35554	B	5227	57	386	
5187	35555	A	5228	1485	1883	
5188	35556	B	5229	117	641	
5189	35557	C	5230	1	552	
5190	35558	B	5231	250	378	

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5191	35559	A	5232	3	1117	TPDPGQGCSEGGIVHETRPSQP LCQGSCAVGCSPLGLLR*RMM ALGKIPPGHRGPAFLPAVESAH VVPGLPGLTRETLPAPLGPHRPP QPPQGPLSTAPPAPLVSPLGPHV PGLPGPPPGCPSPLPLRPCPPPS WLRPHRPVQPWWGT*GSGWRP RCRPGAAGRNPGLPRACCRGL CRGPH*RPGGPRPGHSGPRTSS WGRTMGNRPRPSASAG**PRHR R*TSAERPGSPQQSASRTGGRS PLSHPGSWWGVMPGLWAG APSMWG*GPGSRVAGGSGRRP TSRPPHYPPHPPGTWPSGAQS GRR*QAQTPGAATEG*GGWGL PPKPWCPQDQFLGVQDWVLPP NGARVGGTWAWKRESVLVPG
5192	35560	C	5233	229	522	
5193	35561	A	5234	1	972	MTAEYYKLKQVVTPIAAAVPD VVSLEQINISLCTWYAVIDLG NACFYIPVHKAHQKQFAISRHG QQYTFTVLLQ/RRDLDFSLPQ DITLAVHYVDGIMLIGSSEGEVA STDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKV KDKLLHLAPPTTKKEAQH LAASFEGWPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVS ADRDVWSLWQAPIGESQWRP LGFQNKALPSADNYSPFERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQQHGLP LNKADLAVATAKCPISQQQRPI
5194	35562	A	5235	3	246	
5195	35563	A	5236	3	841	
5196	35564	A	5237	1	746	RDLDFSLPQDITLAVHYVDGIM LIGSSEGEVASTDLLVRHLHA RGWEINLTKIQLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSADRDVWSLW QAPIGESQWRPLGFQNKALPSA DNYSFERQLLACYWALVETE ATPVITQRAHEQSGHGGRDGG YAWAQQHGLPLNKADLAVAT AKCPISQQQRPISS
5197	35565	A	5238	1	483	
5198	35566	A	5239	1	1908	
5199	35567	B	5240	1	2718	

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5200	35568	A	5241	522	693	LDFFLVFLQQFLPRPSSSEI*MLP GFPAAAYGPVAAA VAAARGS GRKVYGTGDSQA
5201	35569	A	5242	1	225	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYLDLTASCQSQEL FQKWVSLCCPD*S*TYSPKDH SSSQAMEQSWTENGFEKLGFR RKEALYYLDLTASCQSQELFQK WVSLCCPD
5202	35570	A	5243	1	1129	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITDPYAMRLYK\SL CQYRAFVNGGGEKARGKPIL CRYGVGM



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5203	35571	A	5244	1	1753	MVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAAALTESDYRVLV GELHDEQMAALYRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISHLHIHAEDTFLPFY LGKKDDVTYAIKPTCWPGLDII PSCLALHGIEIELMGKFDEGKLP TDPHMLGLAIETVAHDYDVIV IDSAPNLGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDIKGFEPDVRILLTKYSNS NGSQSPWMEEQIRDAWGSMVL KNVVRETDEVGKAVINHKKGK NSPRMVQSNDLTAAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSLAGKEVVFYRPE EDAGDEKGYESFPWFIKQSEE/P QSGNFYDTLGMAEFRRGGLR ATAGPRLSRTRDCQGTEKVHG KTVFDKTVP/WVPKRLKSPSCK NRWP*KMQKLSVCTASSPGQQ LSTVRVTQREICFPVVRREVLLL IGTLTQTRKGQISVRA
5204	35572	A	5245	337	1977	

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5205	35573	A	5246	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG/LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
5206	35574	A	5247	1	1383	
5207	35575	A	5248	1	1731	
5208	35576	B	5249	1	1290	
5209	35577	B	5250	1	3345	
5210	35578	A	5251	1	1959	
5211	35579	A	5252	3	2356	
5212	35580	B	5253	334	1710	

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5213	35581	A	5254	1	1302	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPV NVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEGNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIIELNNDYTLK KVMKPLITSNTCDNLKTCHTSH GSMVAETA VINHKKRKNSPRIV QSNDLTEAAYSLSRDQKRMLY LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPE/EDAGDE KGYESFPWFIKRAHSPSRRLYS VHINPYLIPLLYRVPNRVTQFRL SETK/EITHPYAMPLYESLCQYS
5214	35582	B	5255	1	1452	
5215	35583	A	5256	1	1323	
5216	35584	A	5257	1	1557	
5217	35585	A	5258	1	2259	
5218	35586	A	5259	1	2418	
5219	35587	A	5260	1	1218	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVA AHKERNQNISRYISNRLAR RECHDSPEEGTGNTSKERLQG RLPSRGLTESQEHL DTRKQFW FEDFKDGLGPILKCDNLKTCHT SHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRMLY LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLSAS NYQRM P D FRRRFLQV\CVMEIN KQTSMLRSYI
5220	35588	A	5261	1	2028	
5221	35589	B	5262	1	1653	
5222	35590	A	5263	1	1446	
5223	35591	A	5264	1	1788	
5224	35592	A	5265	22	1893	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5225	35593	A	5266	1	2144	MEKKITGYTTVDISQWHRKEHF EAFQSV AQCTYNQTVQLDITAF LKT V K K N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G F I E N M F F V S A N P W V S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K D T G V R S K I S G V I K M P M G V A V V N C C T Y G S D Y R V W L A S W M M S Q W L H Y P E W Y R K E N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G E L V I W D S V H P C Y T V F H E Q T E T F S S L W S E Y H D D F R Q F L H I Y S Q D V A C Y G E N L A Y F P K G F I E N M F F V S A N P W V S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K G Q I R M G T E L F F R L S E T K E I T N P Y A M R L Y E S L C Q Y R K P D G S G I V S L K I D W I E R Y Q L P Q S Y Q R M P D F R R R F L Q C D N L K T C H T S H G S V M A E T A V I N H M K R K N S P R I V Q S N D L T E A A Y S L S R D Q K R M L Y L F V D Q I R K S D G T L Q E H D G I C E I H V A K Y A E I F G L T S A E A S M D I Q H A L K S F S G K E V V F Y R P E E D A G D E K / G Y E S F P W F I K R A H S P S R G L Y S V H I N P Y L I P F F I G L Q N R F T Q F L L S E
5226	35594	A	5267	1	1167	M N M N I K K I V K Q A T V L T F T T A L L A G G A T Q A F A K E N N Q K A Y K E T Y G V S H I T R H D M L Q I P K Q Q N E K Y Q V P Q F D Q S T I K N I E S A K G L D V W D S W P L Q N A D G T V A E Y N G Y N V V F A L A G S P E D A D D T S I Y M F Y Q K C D N L K T C H T S H G S V M A E T A V I N H K K R K N S P R I V Q S N D L T E A A Y S L S R D Q K R M L Y L F V D Q I R K S D G T L Q E H D G I C E I H V A K Y A E I F G L T S A E A S K D I R Q A L K S F A G K E V V F Y R P E E D A G D E K G Y E S F P W F I K R A H S P S R G F Y S V H I N P Y L I P F F I G L Q N R F T Q F R L S E T K E I T N P Y A M R L Y E S L C Q Y R K P D G S G I V S L K / I D W I I K R S Q L P Q S A F Y Q P F M G L R R E S F Y F R W E R R T L G P L K S F S V K R G T E A G K F R L A A L L V R L
5227	35595	A	5268	1	1395	

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5228	35596	A	5269	1	1375	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KIRRNKGPVSATFTSDGKIRLFY TDYSGKHYGKQSLTTAQCDNL KTCHTSHGSVMAETA VINHKK RKNSPRIVQSNDLTEAAYSLSR DQKRMLYLFVDQIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSL/KIDW/IIE/ RYQLPKVPSPEARKITRRWRIV KQRI*LGFLRLSEMPRKQGDY RTRIWKFEGLSNVLVIQLNKLI ICVMCLVRDCDVLKTYFHR
5229	35597	B	5270	1	1668	
5230	35598	A	5271	1458	2675	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIK AHSPSRGLYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAM/R IPLH*LFR*TLRQTKPDNSAGKC VKI**HTQNQRSGRSQND*RR GI
5231	35599	B	5272	1	1317	
5232	35600	A	5273	1	987	
5233	35601	A	5274	1	571	
5234	35602	A	5275	1	4161	
5235	35603	A	5276	1	1228	
5236	35604	A	5277	387	3466	
5237	35605	A	5278	1	6721	
5238	35606	A	5279	1	1651	
5239	35607	A	5280	5082	5879	
5240	35608	A	5281	1	231	NHLAVRRLTELSGGQRQRAFL AMVLAQNTPVVLLDEPTTYLDI NHQVDLMRLMGELRTQGKT VD*VRDLNQVSRYC
5241	35609	A	5282	1	303	CLRILCPYPYIPLTEKTLA*PAL YTLELTADMAETCKQFLPEFSL TFSFQRGWEKETEYAEVLERNF ERDRQLTYTAHGPHKADLRIQE SGVPYNEILVTL

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5242	35610	A	5283	1	273	TNSSVGPGDRLL*QTAAPHRGK LKVFFGACAGVGKTWAMLAE AQLRAQGLDIVGVVETHGR KDTAAMLEGLAVLPLKRQAYR GRHISEF
5243	35611	A	5284	66	1200	HILPAGHPTLRHSLFPHQQGRSS VQSALGAASGNGLKLVGRFEW GPSRRARSGYPDATGYDQVPKPI SAAVKEFFGSSQLSQFMDQNNP LSEITHKRRISALGPGGLTRERA GFEVRDVHPHYGRVCPITPE GPNIGLINSLSVYAQTNEYGFLE TPYRKVTDGVVTDIHYLSAIE EGNYVIAQANSNLDEEGHFVE DLVTCRSKGESSLFSRDQVDY MDVSTQQVVSVGASLIPFLEHD DANRALMGANMQRQAVPTLR ADKPLVGTGMERAVAVDSGVS GGVVQYVDASRIGIKVTKTRCI RVKQVSTSTTLPLFLMESNPLF WMAVLVSAGILGQWPIGRLAD KFGRLLVLRVQVFVILGSIAM
5244	35612	B	5285	1	862	
5245	35613	A	5286	1	579	DPRD*RLKVAK*MVTLFGPQFV RELQQRGFDFLDLKFHDIPNTA AHAVAAAADLGVMVNVIIAS GGARMMTAAREALVPFRPDAP LLIAVPV*RSIKASDLVDLGMTL SPADYAERLAALTQKCGLDGV VCSAQEA VRFKQVFGQEFKLV TPGIRPQGSEAGDQRRIMTPEQ ALSAGVEYMENGRPGTQSVK
5246	35614	A	5287	484	978	GIVRIPHRLADIKCWRAVLVNY THYSYQANLCCANLE*ADLSGS VLDCANLQGVKMLCSNAEGAS LKLCNFEDPSGLKANLEGANIK GVDMEGSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKGAIF EEMLTPLHMSQSVR
5247	35615	A	5288	3	504	YRLSQSSSKSLVSRSWLNMRFIS SVMFMEPTSSSENRTSPSCSE MSSSEATLRSFFLGTTSPCRSM VGLQLVKSSQSSSVSSFSSHVRL SQSSSKSKVSRLAGT*EGSEKRS FREEKVPCLRLGLPESTLYAHC SV*SRTHVFSGTSHSSKVAVG MSIVQMRKL

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5248	35616	A	5289	2	442	HVIWHMPRKTSKCRQLLCGASRNADTAARQSTCSSHRPPGKIPSLGPRRVPGCSSVPSSRGEQSTGSPAAPRCGDVTHTEASQEEQP*LRGTHGPASTPEQGTAKAKVRDRRAVVHPGKTGIPSAAG*KGRGRPGEPPGAADVQVE
5249	35617	A	5290	151	1185	YVDQVTHITESPLPSVSYSFAFGLISAVDPVATIAIFNALHVEEDTEKGHVRLTPASPSTFFFFFSTE EKYAPGSCCRKAAVL*LLHISH QLSLDSPSLTVVIYVLKHIDLRK TPSCRHCEI*VGDTAVLSVLFS PSLGIMAILFSGIVMSHYTPREASP*SCCLFTVSSHTVCCHPGLRG AIPYALSLHLDLEPMKRQLIGTTTIVIVLFTILLGGSTMPLIRLM GLPGGAPRWCVLAVGPPFLPAQGNTVESEHSELTEEEYEAHYIRRQDQLSLFN*N*SCLWPSPCLPPPP*TPHTKHPVASPPFHGPA PDALTAWLCLSTQDLHHGRIQ MKTLT
5250	35618	A	5291	5	198	VCGRQQSLEAGL*GAATPFAVFPRPWSAVRVKEYGYTRLHILNGTHIHQQVSDDAQAFACHPP
5251	35619	A	5292	137	308	HLERTGPNLPPGARLATRPTTRLPAASPRGRDTPLPIPISEFYSETEAKGEAPYIEPE
5252	35620	A	5293	612	1078	RPPEKKERGRRVRGRRGGGGKRRRRKRKKRKGSKGREDAAAA AAAAQSPRTRAPAPD*ERRPQP APSARAPPRPLLPAPRRSRPAQV PPDSASPWAAAAGLALPPPQCP GGGARPLRLLPQPPAPGGTAR WEPRRPRPAAAPGLLQSPGPLP RQS
5253	35621	A	5294	515	817	LALPHLPSNLLLKGWLKLLKA*S RPSRTPSFG*LSQWKHALKRLK PVITCLLQHGFLLKPINSPYNSLIL PVLKPKPKYKLVQDLRLINQIV LPIHPMVSQA
5254	35622	A	5295	1	951	
5255	35623	A	5296	1	1077	
5256	35624	B	5297	87	1423	
5257	35625	A	5298	29	234	
5258	35626	B	5299	77	327	
5259	35627	B	5300	1	235	
5260	35628	A	5301	2	2144	
5261	35629	A	5302	1	855	
5262	35630	A	5303	845	1057	

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5263	35631	A	5304	1	933	
5264	35632	A	5305	1	954	
5265	35633	A	5306	1	1603	MEAEKFHQMPVSRTRKASG VIQSKSENLRTRGANSHALKRL KPVITRLLQHGLLKPINSPYNSPI LPVLKPKDKPYKRFLAFYGWSPR SLIVDSCSKLEQHSTLSRVILVIY KGFCRFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVACL TGEKKNHPGAQYANRLSPRVG RFINAAGTTGFPTGKRAVSATQ LMDFADFGTTITQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQSSQLS SLRLTLPDRLRSPLDHHGRRAS GNSHSGSPKPPSCLPLISPHLNP QVWDISTPSLATDHMPITIPKLS NTLTPLNLKCQYPIQHALKRL KPVITRVLQHGVLKPTNSPYN PILPVLKPKDKPYKLVDRLINH IVLLPIHPMVPNPYTLLSSIPPSTI HYSVLDLKHAFFTIPFHPSSQPL LAFTWTDPDHQAQQITWAVL PQRFPRGTGPHYFNQAQISSSV TYLGHIKITYVLSLPIVSD
5266	35634	B	5307	1	874	
5267	35635	A	5308	144	539	
5268	35636	A	5309	1165	1639	PHPAVASRRGRAGPGGLSAPER TPSSELSPLSKGDLRKTHRTFSP Q*GDLRKTHRTFSTR*GDLRKT HRTFCTR*GDLRKTHRTFSTR* GDLRKTHRTFSTR*GDLRKTHR TFSTR*GDLRKTHRTFSTR*GDL RKTHRTFCTR*GDLQKTHRTFS TR*GDLRKTHRTFSTR*GDLRK THRTFSTR*GDLRKTHRTFCTR* GDLRKTHRTFSTR*GDLRKTHR TFCTR*GDLRKTHRNFSR*GD LRKTHRTFSTR*GDLRKTHRTF CTR*GDLQKTHRTFSTR
5269	35637	A	5310	235	453	SHWPWLCSSSTSCSSQRSIVSSG MARGPFLRKRDLLFPPPPPGSH GLELLEIIFHQGISQVHLLHLQ VWL*NLNVPDSSLPAENEATGP GFVPPPLAPVRGPLFPVDIARGP FLRKRDLLFPPPPPGVAMFGASR DYFPPGDFPGPPAPFASMAFL N



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5270	35638	A	5311	2	2333	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESLKD SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLQESQKQLL QEA EVWKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAA RNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPWDQDRRMMFPPPG QSYPD SALPPQRQDRFCNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFP\AKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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5271	35639	A	5312	141	2788	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESFSGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSGLIEEKSKLLE KFSLVQKEYEGYEVESLKDAS FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSKHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTTFQIFPMNEERLK IAIKDALNENSQSQKQLLQ EAEVWKEQVSELNKQKVTFFED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFELLEKDPYALDV PNTAFGREHSPYGPSPLGWSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRA LSDTGFLS PPWDQDRRMMFPPPGQSY PDS ALPPQRQDRFCSNSGRLSGPAE
5272	35640	A	5313	217	447	FQRMSGL*GYSPPLGGQPAL*E CQGAADSAGGRGLDSERSLGR PAASGPNTALGWQAQPWS*Q AGPELPRAEFLQA
5273	35641	A	5314	3	287	TLRNRHRELRTCLSGPGLGLPT QVSVVAGGCCVCPSSSQSPVPR PPALSAAPWHSRAGCPPSGGL *PQRPLILWNQPLSNTLLEKELA PPPAH
5274	35642	A	5315	3	468	ALARSPAG*QSPDGDLCFRHR KGERRPAAPAGQCPAGRQRHV PAAGRDKPGRAPGADR*AGPI LHLYHLPAPCGGGTPGDSNPRR APAQRSE*CTPPPPQ*RNNRKPS TRAGLLPS*HVQLSGGLTLC GDRVS*WPQGVLAAPGPGPCT HL
5275	35643	B	5316	64	288	

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5276	35644	A	5317	73	265	NGRTSRCFSPGKH*EYCSGTFH PLQVVGKIYSNLDKIL*ASRAR WGLCSRKPGYWSCTQPPTSS
5277	35645	A	5318	125	461	
5278	35646	A	5319	298	593	LGVEVEPVTGGDAVIGASHDAF LQVNIESIVPEHSTRCKLLGKFI RIWIKYFRHLVHGGGSAPVSLV TGPVHGDSSLGPVAPPPRVVE PARQVRAHAVVVAGPLRRGRG LGRHRLRARG*GMPQSVRGA CGAQGHGPAGEDQRLPRERG PAGQVQQPGVVPGLQDPEGCL RVQDQ*PGLREQSPHRARDA*S ILSKFE*IFPTTCSGWNVPEQYS QCLPGEKHRDWPR*LHHLL*PA QLPPPVTSTGHPSAIEGLETPL RSPLTPGPPGKSIIPHPQSPDCD GTDCAAFPENIIRLSRKICKRG
5279	35647	A	5320	1124	1835	HSLHFPKFPSFLTLITLGLLM AVPPGLITTHQQRQAML*YKPL ARLLEPLISFPSWKSILKEITSQC SICYSTTPQRLFRPPFPPTHQTR GFAPPR/HWQIDITHMPQVRKL KYLVLVDTGSKKATVVISSLL SDIIPRFGLPSTIQSDNGPAFISQI TQAISLALGIQORTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDG/VGPKLLPG SPFQLHHTWDSP
5280	35648	A	5321	1	1758	
5281	35649	A	5322	1	1967	
5282	35650	A	5323	76	1908	

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5283	35651	A	5324	524	2144	QSDLSASQHGFLPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC LRAAAAAALIVLEALKITNYAQ LTLYSSHNFQNLFSSSHLTHILF CSPGSFSCTHSLLSLPQLPIVPGP DFSPASHIILDTPDPHDCISLIH LTFTFPFHISFFPAPHPDHA*FIN GSSTRPNRHTPAKAGYAIVQVT SPPLKTSHFLSIVEIYPQGNNFS VFHLLFYSSGIIQAPLLSLHIKL RDLPPPRGTGKSALLNMPVRKL KYLLVLVDTGSKKATVVISSLL SDIIPRFGLPSTIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDGEARSSFQAH HFNFITHGTVPDVFPILQLLNE DFEDPCLGYLPSPEISICLEPTSW SKDRSCSSGEEGSAGQTVTGDL HKAQTPELDQPASLNCPL
5284	35652	A	5325	1	420	RTRGGEKE*EEKQRRR*RIK*E EEEK*RRSRGAGDKG*NERRRR NRGEPVEKEEDDRRRKRQWRR GEEKRRRGRNCGGGGEEKE DGRRRRLPCFLLPSLLVSLW LVSFLPCVFGFGAPAVVFARF RGLRAFCRF
5285	35653	A	5326	2	467	
5286	35654	A	5327	269	777	
5287	35655	A	5328	2443	2627	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5288	35656	A	5329	57	394	
5289	35657	A	5330	33	311	HNTLPKTKPWFQEPGDEEPQQE EPPTESRDPAPRLPRSP*SADPP WRSQRPQGLTRPPPEPLRPHGS PPAHLSLFCQRSCPGPQERPHPS TM
5290	35658	A	5331	226	406	
5291	35659	B	5332	51	90	
5292	35660	A	5333	1	348	PPSQRV*GWHMRQGGGRQHAQ PVLSQQGLTAGHCHHQHCRRP LACDVRPVVYEKVS RDHGLVS GQHN/PAPESQGGQSTSPPRHTGR KQARAGGEKKVTS DPANTAQH NPNTGSRGRP
5293	35661	A	5334	109	380	

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5294	35662	A	5335	448	724	WPSRSALAAGGRTAPTTPRSRAG PPAR*RAGRESARGTS*GIRPRS QPARRPCPPAPVGRGLPPGPAP PPPRAAPREPPRCRAAAHTSRP AGS
5295	35663	B	5336	1	1554	
5296	35664	B	5337	99	366	
5297	35665	A	5338	1	714	
5298	35666	C	5339	391	689	
5299	35667	A	5340	2	614	
5300	35668	A	5341	2	461	
5301	35669	B	5342	45	1148	
5302	35670	A	5343	215	849	IKRLPLMKRMWL*LQPESELEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5303	35671	A	5344	1	1035	MGQVWALVRSTLELFHTDDEE EGEYDEVTEEVTEQVYLPKA KVAQEEVHPYPSAPPHYFEE KEWPDPPDLSFLEDTGKRVVAP VTEQHLERLLSVLFRQEFSRLD ERDDAVEQLRGVCIRAWEKITS GGEQYPSFSAVKQGPKELYADF IAWNLLRQESLKKVISDSAAQD IVLQLLAFGNVNLDCAALRPI RGKAHLVDYIKACDGIGAKQD SERFAFTIPVVNNLQPAKHFHY FTDGSSNGKASYSGSKGQNQQ PIWILSRHLKPYHEPDAKEEIPG G/CPRTPLWLQPCRD*C*GGP*/P VTSNTR*TQPPTWGQIKLSQM VEENLRKAGQLVTMTVYWN
5304	35672	A	5345	1566	1767	KGGWSQRHSQGACYTCRKSGH WAKECPQGIPPKPRPICVGP KSDCSTHLAANPRAPGTLAGS L
5305	35673	B	5346	1	3429	
5306	35674	A	5347	1	1776	
5307	35675	A	5348	1	933	

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5308	35676	A	5349	1	1743	MGKVVAVVRSTLELFHTDDEE EGEYNEVTEEITEQVYLPAKAK AVKEREQRGNITATFEPFPKLL KEFKQAINQYGPESHFVMGLL KNVAVSSQMIPTDWDALTQAC LTPAQFLQFKTWWAHEASIQA ACNAQAQPQINITTGQLLGVGG WAGLDAQVVMQDDAIEQLRG VCIRAWEKIPLCGEQYASFSAIK QGPKEPYVDFIAWLQESLKKVI ADSAAQDIVLQLSAFDNANPDC QAAL*PIRGNAHLVDYIKACDG IRGNMHKATLLVQAMAGLRVD KGNPLLPACFNCCKHGHTKQ ERRKKSVSQAARWGKRKTADP EICPKCKGKYWANQCHSKFD KDGTLSIGNAMRAEQDCEWFT FTIPAVNNLQPAKHFRFTDVS SNGKASYSGSKGGQARVQLFE NASVRATNSDLPQSSLWCRRKT SVSVAVLVSATIPISRVQGPSQV LGQGEKQTNQNVVPNPYTLLS QIPEEAKWFTALDLKDAFFCIPL HSDSQFLFAFEDLTDHTSQLTW TILPQGFRDSPHLFGQALAQDL GHFSSPGTLVLQYVDDLLATS SEASCQATLDLFLSFLAN
5309	35677	A	5350	1	1085	
5310	35678	A	5351	1	3105	
5311	35679	A	5352	1	5172	
5312	35680	A	5353	41	324	
5313	35681	A	5354	18	270	KLSQVCIDLL*IREGERDMYPG WAKFPSPYSLKGT*PIAQGVW SFGDFFYC/IPSTLPTPKSWRLFE SPFPESLTPVSLVWWPC
5314	35682	A	5355	80	384	SNNRTEGAWGKCQQLMSS/PLTE PQVTLTIDSQEIDFLDGTGA VLSCEQLSSRSVTI*GILGQPV TRYFSHLLSCNWETLLFSHAFL VMPESPTPLLGR
5315	35683	C	5356	99	317	
5316	35684	A	5357	388	476	KVCPRPCRTSM/LPIRII*KLPQV CLDLL*IIIEGEDMYPG*AKFPS PYCLKGT*PGTIAGSWARGVSA AASPSYSSPSY

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5317	35685	A	5358	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLPAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTWFTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
5318	35686	A	5359	1	909	
5319	35687	A	5360	153	436	CFCCCVVEGNKPRNLQRTTKTPR LSVMSPSSCRGRGIWPNPGTC/R PSPSLI*SRSRQTWRITTPCQQG NKTGQRMNLTN*QEASEGG* *QTPLS
5320	35688	A	5361	1	1632	
5321	35689	C	5362	1	675	
5322	35690	A	5363	604	1047	SNNRTDNPTSVAYLSKETDVV AKGWPCHLWVVAVAILVLEA IKIIQKDFTVWTSHDVNGILG AKGNSWLSDKRLLRYQALLLE GPVLQIHCTCVALNPAIFLPEDGE PIKHDYQQIVAQTYVT*EDLLE VPLANPDLNLYTNGSSFV
5323	35691	A	5364	749	1002	QLKKGTTNSLLVSKPSPVWIPTG TLTQIMGTGVANIC*PVF*KD*G ELGKMNYAMMSTITQGKEENP AFLKWLWEALRKYTPLSP
5324	35692	B	5365	114	2309	
5325	35693	A	5366	413	1157	
5326	35694	A	5367	105	478	YGHCCYDHRICCFPPATEQKVC PCAAQG*PL*LRGDDPEMSVYI *QLPLYSSDLLSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDFKQFLHSS FDFCFGRVFSNFE
5327	35695	A	5368	531	1087	RLQPPGAPVEDITRPVSAKPRD ADRNSTGCYL*V*LQHQRQTES GRQLSGL*GPGCNGVH/ASLYR TSAMFAERFGSYSRRSTTAGIPS LLRLKSTIRRSRDRSRKAQRKR CGQVMPQHRRSIRPLLQIPITPSL NRNLHRSRHSRNRWSRLNRR LKHHLRRSQNRSRWSKKLHR RVKPMCLCNWVR

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5328	35696	A	5369	544	1381	VNPALQVLVVAITPPPSLPSPSCI RVLTRVSNAIAAKPLCLAVCAV VEGGRIRALVAVAAWGAGVTG GPAGLIACGPVSPSVIRGQFRHA GISFFLYAIGGEMVPAVRRQNH TPA*HKRFAKAFQLAHPNAVN AEHFAGGDRHLFSLNQGCVV KHHVRRDITFIGYRFTQFA
5329	35697	A	5370	81	863	AYGNPVEIAGGARQAGVNFTG VFRPRFSRRWRRISGETCKLWW RRWRSAWASINQTFASWSTLIF RAISNPIIRKPDAPGVMACPRKR CCFTIRLIWRGCAVVWKRSE GQLQDIERHKLNAMGAFAEAQ TCRRLVLLNYF/GRRASGAVRE LRYLPRSAETVRRFNRCSDCPF HHWSCSAVWDGLCGGSDSCC GVSARLRFASPVNLPITGEIPER GFHPFCGRRTENGKNHPRNLFI WRSNCSVLPVKVMSLCSSTPCP
5330	35698	B	5371	12	273	
5331	35699	A	5373	145	336	SEEEEEDEEEEEEEEEEEEEEEEE E*EEGESAIICAKVCISVFPRRK NELNMAITPNTIPKLNHW
5332	35700	A	5374	294	657	VAPGDRHAFHGGGSGLSPELTL PQTQCCAQATVQGLEGTRSW QSGTSSLSPWSHTSLACPQKEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEAKTQ*KSG QKI*TDSPQKK
5333	35701	A	5375	2	588	SRPGITGSTISYGDPGHGAGPPG ADLGPASRLKPERAAGAQLAA GEARQSGDPGLPGGPGHSLGTA PC*VDKGWGHVPSTVHHQRQP QPGGLRAPGTALLAGTQPSHPA AGPWEPQQRGVRLGGRRDS *VGGG*GQHNKALWGPR*PHT EQKPDRKLSRIPLRAAGGEKRG CGCDRAGCLVLGPPQLPAQGL
5334	35702	A	5376	1	445	SLSHRAGGGGGVGGGAVCLFS PPRTKRESAPESPSRVLGHSVP S*GAPSTRGSVSRILTSGGTHER SNGLTCHRNQAGTGPSALRSGR P*CLSRANPPGSKRSAGPVHEE RT*PCRLSGSAGITQ*DGN*KAG PRVPEAPERGCATC



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5335	35703	A	5377	3	313	QNDEVAFRKLKLIIEDVQGKSY LTNFHGMNLTTHDKMCSMVKK WQTVIEAHVDVKTITNGYI.LCL FCVGFTHKKCNNQIWKTSLF*QQ SNMEDFFVLTTGIISHLHEPFLV VTDYDQ
5336	35704	A	5378	45	764	TSFLTGTGGKKGSKKKVVDPPS KKD/WL*YVKHRAMFNIRNIGK DVGSPRTQGTKIAS\DGLKG\RV FEVSLADLQNDVAFRKFELIT \EDVQGK\NCLTNFHGMDLTP* QKCCSMVKKM/WQTM*SSPL MVKT\TDGLLASVCSCVGFTHK \RNNQIRKTSYAQHQVVRQIRK KMMEIMTREVQTNDLKEVVNK LIPDSIGKDIEKACQSIYPLIHDF VRKVKMLKKPKFELGKLMELH GEGS
5337	35705	A	5379	3	501	SSARFVSSSSSGGYGGGYGGVI. TASDGLLAGNEKLTMQNLNDR LASYLDKVRALAAKILSDMRS QYEVMAEQNRKDAAEWFTSKT EELNREVAGHTEQLQMSRSEV TDLRRTLQGLEIELQSLSMKA ALEDTLAET/EGDVRADSERQN QEYQRLMDIKSRLEQE
5338	35706	A	5380	1	716	AQLKVKFWYWPEAGAGGLRR FKHYYPFKDCRDKILGATIKN SRIVLQIDNAGLAADDFTKFE TEQALRMSV*ADITGLRRVLDE LTLARTDLEMQIEGLKEELAYL KKNHEEEISTLRGQVGGQVSVE VDSAPGTDLAKILSDMRSQYEV MAEQNRKDAAEWFTSRTEELT REVAGHTEQLQMSRSEVTDLR RTLQGLEIELQSLSRLWGFCC PLEGVFWVEGWEGRDPYPRLF
5339	35707	A	5381	3	832	
5340	35708	B	5382	141	1067	

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5351	35719	A	5393	1	626	EEGEVEEEGEEEEEEEEEGEGEE EEEEEGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEQEEEEEEEEEEEE EEVEEAAAAAASRDSHTSIEL TYWPPCPALRDTLVSNCSLSSL CTSGDSFHW*ETTIPAMSSCSH QHSLHQLGIIPRQILMRMASLM RRICEDHPATAEQ**HV*GPPD
5352	35720	A	5394	2	506	
5353	35721	A	5395	1	480	
5354	35722	A	5396	1	492	
5355	35723	A	5397	1	870	
5356	35724	A	5398	111	407	
5357	35725	A	5399	1	651	
5358	35726	B	5400	1	2427	
5359	35727	A	5401	571	966	SPFTNSRLTIFISFSECGQIAEYI LSQPFMVRIMATEPPIINLQPGN FTLDIVSRDHTTAL*PGRQEQNS VSKKKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEKKKK
5360	35728	A	5402	1	1674	
5361	35729	A	5403	1	306	
5362	35730	A	5404	2	431	
5363	35731	A	5405	1	585	
5364	35732	A	5406	1	708	
5365	35733	A	5407	3	595	
5366	35734	A	5408	287	659	
5367	35735	A	5409	1	633	
5368	35736	A	5411	3	634	
5369	35737	A	5412	344	481	
5370	35738	A	5413	1	525	
5371	35739	A	5414	1	501	
5372	35740	A	5415	1	461	
5373	35741	A	5416	302	567	MLCCLEISSTRYPKSSLSSSKFH KSLGQGQNAASLFAKT*RESPL LQFPASSSSPSETTSAWTLFLISL SAFLTAKAFNKSLGGSKLSH
5374	35742	A	5417	251	844	NLGRGSQTSILDFCAPAGLIPCG SCQGLGLPHSEATARAVYWPL SAMAGVAGTQGTSLDSSLFA KT*QESPLLRFPSSSSPSETTSA FILLFISLSEFLSKPFNKSLGGSK LSHIFVSSSEPSKLSQPLHMPIQ ARISSFTSGHTDDSTVLFVLLK LPLPVPSQAFSLKPGSIVMLLSS WSDNFNIPSISDSDA
5375	35743	A	5418	1	1113	
5376	35744	A	5421	1	337	

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5377	35745	A	5422	2	680	
5378	35746	A	5423	144	373	
5379	35747	A	5424	1	597	
5380	35748	A	5425	3	3319	
5381	35749	A	5426	1	612	
5382	35750	C	5427	46	168	
5383	35751	A	5428	1	663	
5384	35752	A	5429	10	417	IAIMNDTVAIRTRKFM\NRLLE RKQMVIDVLHPGKATVPKTEIL EKLAQMYKTTDPVIFVFGFRTH CGGGKTTGFGMIYDSL DYA EK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
5385	35753	A	5430	67	263	GKTTG\FGMIY\DCLDYAKKNE PKHRRARHGLYEKKKTSRKQR KERKNRMKKVRGTAKANVGA GKK
5386	35754	A	5431	2	537	TPGSTTTTKFPTASTSEDRSPIM ND\TVTIPH*EKFMTQPTYFRGN QMVI\DVLSPPGKG DQCPKHRK FGKKLAQNVPRPTD\VIFVFWI QNFIFGGGKTT\GF\GMIYGFPGI YAKEKMNP D HRLCKDMGLVL RKEKGPSRKANGKGTARNRIG RKVPGGTGKGP NVGCWAKRR NEVSSS

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5387	35755	A	5432	1	2195	ARGLSMGH*FP/PHFQCALA*M PAPGRGPPPLPP/CPDAPPACA ATMERPEAGLRVAPRSPVQPGC TSVLPVAKRFNARILWLKRPRQ QLWSLWRAQATVSLGGFHV LSLQVHRINARVKEAWQLPPRF QMMYQKAWVLRQKPAAAVEP SQRNSPRAMLGGNVGLEPPPRV STRALPSGAVGRGLPPSRPKND TATGSLHPELGKAADIQFHPVR AATGASPKSIGTELPAKALGAH VLLQCALDVGHGVEGELWSFK TRQPSDFSIFSPFPFYSTKPPLS SWPIPNEPLGTPRRGRGGAEG LLTSQCSHILNGLCFTGGINSNE CENVSRKKKMSEFEANTMDS LVDMPFATVDIQDDCGIFFDVW KLRVNCQEILANRHPGRAMRK VVLTKTSEGESLAVGKLPLK RLVSLDCQLRCLQCECGILIRQ HVVWLERTTGHWHPRSSQSCR LNTTSTALEHCNAFIYNTVCSH KLKDHSHDNGKSSGFLNPVAA PHSCIVMGHLTLITTSYYTPLT KPDTDPTLKKEGLISQDSSSLEV LLHTDPLGKRGTDPDRVDDDSL GKFPVTNSQARKRILEPDDFLD DLDDEYCEDAPKHRGKGCESA HKELDASNLEDQDKPYACDIC GKRYKNRPGLSYHYAHSFLAE EGEDKEDSQPPTPVSQRSEEQK SKKGPDPGFALPNNYCNFCLGNS
5388	35756	A	5433	1	580	FSPLIHLILSGHSTCFREHRVGG KVTDDQDPKAEFFLVQNKMK SLPCLLLSTQTRQPSDFSIFSPF PPFYSTKPPLSSWPVLNELLGTP PRRGGGRAEG/PPHFPVG/GPGR GAPSPRRGGWPGGGLTPQPPS RTGRLAGRGADPPTSLPDGAA GRAGG*PHHLPPGRGGWPGRG APHFPVGVAGQRRFLIC
5389	35757	A	5434	405	685	KVSHVYFYPHRPRNHPISQFFPH PSRLSIPQNRHCHHGPS/RNEPL GTPPR/PGSWPGRGAPHFPETFN HGRRWKGSRHVFTWPEQERE WGSATHF
5390	35758	A	5435	1	654	
5391	35759	A	5436	1	426	
5392	35760	A	5437	1	548	
5393	35761	A	5438	1	459	
5394	35762	A	5439	1	346	

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5395	35763	A	5440	1	1248	
5396	35764	A	5441	1	1257	
5397	35765	A	5442	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGGI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAIEVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIISIDAEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARI AKAILSQKNEAGGITLP
5398	35766	A	5443	1007	1719	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLARAIHQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLG QLTRDVKHLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAVPIKLPM TFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLP
5399	35767	B	5444	1	1020	

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5400	35768	A	5445	1	1576	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYQNRDRDQWNRTEP SEIMPHIYNLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPF LTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKCSSLA IREMQIKTTMRYHLTPVRMAIL KKSGNNR/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLPWS AS*DPLA*NSCCQHSLCKSTWD AQACARKLRTLKGYRNCQLE
5401	35769	A	5446	1	984	
5402	35770	A	5447	1	1563	
5403	35771	A	5448	1	1449	
5404	35772	B	5449	1	1605	
5405	35773	B	5450	1	1569	
5406	35774	A	5451	1	690	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYNPLLNEIKEDTNE WKNIPCSWVGRINIVKMAILPK ATVTKIAWYQNRDIDQWN RTERSEIMPHIYNLIFKKPEKN KQWGKDSLFDKWCSENWLAIC RKLKLDPF LTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIGI GKDFMSKTPKAMATKAKIDK WDLIKL\FCTAKETTIRVNRQS TKWEISSL
5407	35775	A	5452	1	1919	

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5408	35776	A	5453	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLFHKWC WENWLAVCRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSLAIREMDIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTL
5409	35777	B	5454	1	810	
5410	35778	B	5455	1	1277	
5411	35779	B	5456	130	1701	
5412	35780	A	5457	1	1395	
5413	35781	A	5458	3	1646	
5414	35782	A	5459	1	759	
5415	35783	A	5460	2821	5781	
5416	35784	B	5461	1	2025	
5417	35785	A	5462	1	3663	
5418	35786	B	5463	1	2265	
5419	35787	A	5464	1	2241	
5420	35788	A	5465	1	2478	
5421	35789	A	5466	1	2067	
5422	35790	A	5467	1	2988	
5423	35791	B	5468	1	2061	
5424	35792	A	5469	1	2141	
5425	35793	A	5470	1	400	
5426	35794	A	5471	2	2507	
5427	35795	A	5472	1	768	
5428	35796	A	5473	1	1527	
5429	35797	A	5474	1	1293	
5430	35798	A	5475	1	1038	
5431	35799	A	5476	1	1572	
5432	35800	A	5477	1	1290	



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5433	35801	A	5478	1	524	MSELPFRIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNISCSWVGRINIVKMAILPK/ VKHR/FSACLQSLGRSGTTGLE ALAM*PIWPQEVE*VKFPALPS GASSTKGGCVP*QIQVEERLLS WKL*QA*TSWYQRQRRSDSSL RERK*PKSIQRNVRRLSYYP
5434	35802	A	5479	2	1547	
5435	35803	A	5480	1	2376	
5436	35804	A	5481	1	1824	
5437	35805	A	5482	1	1071	
5438	35806	B	5483	1	1839	
5439	35807	B	5484	1	1368	
5440	35808	A	5485	1	1884	
5441	35809	A	5486	1	1053	
5442	35810	B	5487	1	2532	
5443	35811	A	5488	1	2373	
5444	35812	A	5489	1	2361	
5445	35813	A	5490	1	2274	
5446	35814	A	5491	1	1686	MASPGPAPTASPKIHSELLTATR EAQRHHPVPRGQDLVTSEFSL SFCFSAIFIFELLGSNSEGVTDL RLWLCQPAPRCGEWTYNPLEQ CCDDGVILDNLNQLTRLCGSSCTF WPCFQHCCLESLSQSNQTVVRF KVPGMKPDCKSSPITRICAQAG VQISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASQ RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA LIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEITPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LAICRKLKLDLPFLTPYTKINSRW IKDLNVRPKTIKTLEENLGITIQ DIGMSKDFMSKTPKAMATKDK IDKWDLIKLSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAACKHMK KCSLSLAIREMQIKTTNQNHM RYHLTPGHG
5447	35815	A	5492	1	1872	

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5448	35816	A	5493	195	1494	PPGQHLQRRCLLRVSGFSENAK KGMLEVLARAI\RQEKKIKGIQS GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKALGYKISV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRJNIVKMAILPKVIYGF NAIPIKLPMTFFTELEKTTLKF WNQKRARIAKSILSQDKAGGI TLPDFKLYYKATVTKTACNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTDLSLSTPAAPMVD SLIARVGVMARGNAITLPCVGR DVKFTLEVLRGDSVEKTSRVW SGNERDQELLTEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLGGEL DDEQMAALSRLGNDY
5449	35817	A	5494	1	1845	
5450	35818	A	5495	1	2109	

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5451	35819	A	5496	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFVSRVSEE GRMGQRGEEDANS LDFPPASLL CLICQEQGVNGESCSPVGMHY REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDAEKAFDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNYLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPTTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETIRVNRQPT
5452	35820	A	5497	3	2284	
5453	35821	A	5498	1	1245	
5454	35822	A	5499	1	1140	
5455	35823	A	5500	383	1185	
5456	35824	A	5501	1	3159	MLEVLAWAVRQEKEIKGIQLG KEEVKLSLFADNMTVYLENPIV SAQNLLKLISNFSKVSGYKVSG QKSQALLYTNNRQTESQIMSEL PFTIASKRIKYLGIHLTRDVKDL FKENYKPLLKEIKKDTNKWKNI PCSWVGRINIVKMAILPKDIIQE NFPNLARQANIQIQEIRKTPQRY SSRRATPRHIIVRFTKVEMKEK MLRAAREKASHHTYSKIDPILG SKPLLSKCKRTEIITNYLSDHSAI KLEFRIKNL

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5457	35825	A	5502	583	2515	MQKKPLTKFNNPSC*KLSIN*LI SNFSEVSGYKISVQKSQAFLYT NNR/QESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKAIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNLYLFDKPEK NKQWKGKDSL FNKWCWENWLA ICRKLKLD PFLT PYTKINSRWIK DLNVGPNTIKTLEENLGITIQDI GTGKDFMSKTPKAMATKAKID KRDLIKLSNFCTAKETTIRVNR QPTKWEKIFTTYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEHIYAAKKHMKKCS PSLAIREMQIKTTMRYHLTPVR MAIIKSENNSLAAGGNNRRT ANVVAHG FANLLTLDKKT LQEI LVHYPDSE RILMKKARVLLKQ KAKTAEATPPRKDLALLFPPKE ETPKLFKTL LGGTGKASLARLL KLKREQAAQKKENSEGEEEG KENEDKQKENEDKQKENEDKG KENEDKDKGREPEEKPLDRPEC TASPIAVEEPHSVRRTVLPRT SRQSLIISMAPSAEGGEEVLTIE
5458	35826	A	5503	1	2463	
5459	35827	B	5504	1	1221	
5460	35828	A	5505	1	4494	
5461	35829	A	5506	1	2825	MARTSYGQHFFPTLISMNIDSG RQNNGIPKLSTSYSLKPMNTLC YLVKRDLEGVLKLRILT WESSL DYPGGPSVITKVLIRQKEGQSQ RTRYDNGSRGWSDAIAVKRPQ AKECGWPLEAGKGKEWILRKE CIPANTLMLAQCPPTLRVGGSV CSAWRMIQNSDGERRKRNR IQL QAVRLSKVIHDTFRNFPRFVHS RELSKGAEKSSSLKKGLEQVII WTKCRQCGERCTKKVEERKV LHNTFISTSTITTLG

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5462	35830	A	5508	1184	4791	TSMQKSSIKYWQTESSSTSKSLSTMIKWASSLGCKAGSVYANQ*M*SSI*TEPKTKTI*LSQ*MQKKPL/YKIQQPFMLKTLNKL AQNL LKLISNFSKVSGYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPQVIYRFNAIPIKLPMTFFTELEKTTFKFIWNQKRARIKSILSQKNKAGGITLPDFKLYYKATVT
5463	35831	A	5509	516	2233	
5464	35832	B	5510	286	4131	
5465	35833	B	5511	1	4911	
5466	35834	A	5512	1080	3119	SSGLHPWDARLVQYTQINKCNPAYKQSQRQKPHDYLNRCRKKAFDKIQQPFMLQTLNKL GIDGT YFKIIRAIYDKPTANIILNGQKLEAFPLKTGTRQGCPLSL.LLFNIVLEV LARAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNL LKLISNFSKVSGYKINVQKSQTFLYNNNRQTESQIMSELPFTIALKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKLPMTFFTELEKTTLKF IWNQKRA RIAKSILSQKNKAGGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPFLTRYTKINSR WIKDLNVRPKTIKLEENLGITIQDIGVGKDFMSKTPKAMA AKA KIDKWDLIKLSFCTAKETTIRVNRQPTTWEEKIFATYSSDKGLISRIYNELQQIYKKKTNNPIKKWAKDMNRHFSKEDIYA AAKKHMKKVCSSSLAIR EMQIKTTMRYHLTPVRMAIIKKS GNNRIRRH FQPRS AMFFCCCPGGEGSGLQWEI.LLAAWTVLPYPCPAATVGRFLKQAQTADHSFLGHVWRVPSSRSWTDKEILSLVVNRQNQE VVQLIGGLCGTHTISPTQHPATG

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5467	35835	A	5513	2494	4549	LQTLQGYSNSKQHGTGKT WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPDKNKKWKGDS LFNKWCWENWLVICIKLKLD FLTPYTKINSRWIKDLNVRPKTI KTIEENLGNTIQDIGMGKDFMS ETLKARATKAKIDKWDLIKLS FCTAKETTIRVNRQPTKWEKIF AIYSSDKGLIPRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEDI YAAKKHMKKCSSLAIEMQI KTAMRYHLTPVRMAI
5468	35836	A	5514	1	5582	MGDFNTPLSTLDRSTRQKV DTQELNSALHQADLIDYQTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTQIITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLNDYWVYNEMKAEIKMFF ETNENEDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
5469	35837	A	5515	3371	5375	TDTSQKKTFMQPKKHMKKCSP SLAIEMQIKTTMRYHLTPVRM AIIKKSNNRSWYFEKINKIDRL LARLIKKREKNQIDAINDKG DITTDPTIEIQTITREYYKHLA NKLENLEEMDKFLDTYNLPR KQEEVESLNRPIRGSEIVAINSL PTKKSPGPDGFTAIFYHRYKEE LVPLLLKLFQSIEKEVILPNSFY ASIILIPKPDRTAKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVG

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5470	35838	A	5516	314	2695	GSACRDPDPDPLRLVGGGAAA PPCSSVSPSAWRQSRPREYYEG GRGLHAPDRETALGLGIATSER MLGICRGRRKFLAASLSLLCIPA ITWIYLFSGSFEDGKPVSLSPLE SQAHSPTYTASSQRERESLEVR MREVEEENRALRRQLSLAQGR APSHRRGNHSKTYSMEEGTGD SENLRAGIVAGNSSECGQQPVV EKC\RRNPLHFHLIADSIAEQILA TLFQTMVPAVRVDFYNADEL KSEVSWIPNKHYSGIYGLMKLV LTKTLPANLERVIVLDTDITFAT DIAELWAVFHKFKGQQVLGLV ENQSDWYLGNLWKNHRPWPA LGRGYNTGVILLLLDKLRKMK WEQMWRLTAERELMGMLSTS LADQDIFNAVIKQNPFLVYQLP CFWNVQLSDHTRSEQCYRDVS DLKVIHWNSPKLRVKNKHVE FFRNLYLTFLEYDGNLLRREL GCPSEADVNSENLQKQSELDE DDLCYEFRRERFTVHRTHLYFL HYEYEPAADSTDVTLVAQLSM DRLQMLEAICKHWEGPISLALY LSDAEAQQFLRYAQGSEVLMS RHNVGYHIVYKEGQFYFVNLL RNVAMKHISTPYMFLSDIDFLP MYGLYEYLRKSVIQLDLANTK KAMIVPAFETLRYRLSFPKSKA ELLSMLDMGTLFTFRYHVWTK GHAPTNAKAWRTATTPYRVEW

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5471	35839	A	5517	3	2079	GKPVSLSPLESQAHSPTYTASS QRERESLEVVRMREVEEENRALR RQLSLAQGRAPSHRRGNHSKT YSMEEGTGDSLENLRAGIVAGNS SECGQQPVVEKCARRNPLIIFHLI ADSIAEQILATLFQWTWMPAVR VDFYNADCLKSEVSWIPNKHYS GIYGLMKLVLTKTLPANLERVI VLDTDTFATDIAELWAVFIKF KGQQVLGLVENQSDWYLGNL WKNHRPWPALGRGYNTGVILL LLDKLRKMKWEQMWRLTAEER ELMGMLSTSLADQDIFNAVIKQ NPFLVYQLPCFWNVQLSDHTRS EQCYRDVSDLKVIHWNPKKL RVKNKHVEFFRNLYLTFLEYD GNLLRRELFGCPSEADVNSNL QKQLSELDEDDLCYEFRRERFT VHRTHLYFLHYEYEPADSTD VTLVAQLSMDRLQMLEAICKH WEGPISLALYLSDAEAQQFLRY AQGSEVLMSRHNVGVIHYKE GQFYVPVNLNRNVAMKHISTPY MFLSDIDFLPMYGLYEYLRKSV IQDLANTKKAMIVPAFETLRY RLSFPKSKAELLSMLDMGTFT FRYHVWTKGHAPTNAKWR ATTPYRVEWEADFEPYVVVRR DCPEYDRRFVGFVGNKVAIIM ELDVQEYEFIVLPNAYMIHMPH APSFDTKFRSNKQYRICKLTLK EEFQQDMSRRYGFAALKYLTAT
5472	35840	A	5518	403	2757	
5473	35841	B	5519	128	353	
5474	35842	A	5520	2	333	
5475	35843	B	5521	25	1359	
5476	35844	B	5522	1	1113	
5477	35845	A	5523	1	2526	
5478	35846	A	5524	3	555	



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5479	35847	A	5525	1	1710	MSQGTTPWGPPTAGTIPSEVH RPFPPVPVPVPETSESRFPVRG VCGQAKSGLRRGAARLAPAA LFTRQQTRELIHSACVSISVNTM HGLSVAINSRRCTYYRKYVIDF SKSEIIGIPISKNIDLTVGTTVTQ LQNLNTVGIIIGSRGGRGQVAAL NCDRQGHLLWFTRVTVHWRM GNDRTFWGLLDTVSELMFIPGN PKHHCGPPVKVGAYGVTFLGV HWCACQDTPCKMKDKLLHL APPTTKKKAQYVVGLLGFWRPI YRVTKAASFEGWPEQDKALP QVQAAVQPALLFGPYDSADPM VLEASVADRDVWSLWQAP/IS HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAWFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPKVIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5480	35848	A	5526	1	438	
5481	35849	A	5527	1	612	
5482	35850	A	5528	2	736	EKCAMTALSSKLISQQKAFFAK MVVDVMMMLDDLQLKMIGI KKVQGGAELEDSQLVAGVAFKK TFSYAGFEMQPKKYHNPKIAL NVELELKAEDNAEIRVHTVED YQAIVDAEWNILYDKLEKIIH SGAKVVL SKLPIGDVATQYFA DRDMFCAGRVPEEDLKRTMM ACGGSIQTSVNALSADVLGRCQ VFEETQIGGERYNFFTGC PKAK TCTFILRGGAEQFMEETERSLH DAIMIVRRA
5483	35851	A	5529	3	474	
5484	35852	A	5530	374	968	
5485	35853	A	5531	1	568	
5486	35854	A	5532	1	2136	
5487	35855	A	5533	1	240	
5488	35856	A	5534	248	1034	
5489	35857	A	5535	1	1602	
5490	35858	A	5536	120	340	

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5491	35859	A	5537	2	408	DEDDDDDDDEEDDDDEDDDDDF DDEEAEEKAPVKKSIRDTPA\K NAQKSNQNGRDSKP\SS\TPRSK GQESFKKQEKTPKTPK\GPSSVE DIKAKMQASIEKGGSLPKVEAK FINYVKDCFRMTDQEAI\QDLW QWRKSL
5492	35860	A	5538	194	1027	WSFISIHLLSYLSACHHLMEDS/ MDMGMRPLRPQNYLFSCELKA NKDYHFKVDNNENEHQLPLTTI NLGAGAMDEL DIVEAEAMNYE GSPKIVILATLKMSVQPTVSLG G\FEITPPVVLRLKCGSGPVHIS GQHLVAVEEDAEESEDEEEEDV KLLSISGKRSAPGGGSKVPQKK VKLAADDDDDDDDEEDDDDED DDDDDFDDEEAEEKAPVKKSIR DTPAKNAQKSNQNGKDSKPSS TPRSKGQESFKKQKTPKTPKG PSSVEDIKAKMQASIEKAH
5493	35861	C	5539	212	367	
5494	35862	A	5540	14	1515	
5495	35863	A	5541	1	540	
5496	35864	A	5542	1	1881	MDAALDDLIDTLGGPEETEEEN TTYTGPEVSDPMSSTYIEELGK REVTIPPKYRELLAKPIGPDDAI DALSSDFTCGSP*LYPSQVFHLL DLLPFSPGYQPRLLQHHLA/AVP FKVAGSGGADCILHMEVRDTA SDTGAGAAALDSSVFSVGLDGF SLHSDRSKSESSSMSSDSLRLGL GFSSGSGNSGFPSLSVAGFNLYS DGIVSSSSPHFSSFSSLAFASSTS LIERRSSSGSACRVPSEADRASS
5497	35865	A	5543	1	930	
5498	35866	A	5544	1	183	
5499	35867	A	5545	1	555	
5500	35868	A	5546	162	499	FPGSGNMAKDAGLIEANGELK VFIDQNLSPGKGVVSLVAVHPS TVNPLGKQLLPKTFGQSNVNIA QQVVIGTPQRPAASNTL/VWVG SPHTPSTHFASQ\NQPSDSSPWS AGKR
5501	35869	A	5547	2	451	LVAEFSAADNHILPNESAYDQK NIRRRVYDALNVLMAMNIISKE KKEIKWIGLPTNSAQECQNLEV ERQRRLERIKQKQSQLQELILQ QIAFKNLVQRNR\HAEQQASRP PPPNVHILPFIIVNTSKKTVIDC SISNDKFEYLFNFDNT
5502	35870	A	5548	37	162	

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5503	35871	A	5549	205	616	RKLHGSQSSITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADAQVRRAVNNYDIIVMSNSF NGQSEHQVWIGGQFTFIKFPIN SVSIRCRARQEGIMSSPGQQVG
5504	35872	B	5550	1	1407	
5505	35873	A	5551	3	416	MLPARMCCGIVSG*QFHTGNSY DHDYEFELGTRS*A*LKLLFS*T LPD*QLPAGSGEGPYHLEGQLS YCHRGGEKALAALLSSPTSKTR SPSEPDPEQDEQKLRFCKRHL Y GQQPRSPVEIRLQHVAIAYQTH HAYD
5506	35874	A	5552	1988	2137	LVITLLPLACGTAK*E*VNVTS FGSRPICSTSPVLFSGL*GPVKEF DT
5507	35875	B	5553	1	561	
5508	35876	A	5554	1	492	
5509	35877	A	5555	3	1055	
5510	35878	A	5556	1	634	
5511	35879	A	5557	1	723	
5512	35880	A	5558	1	384	
5513	35881	A	5559	1	792	
5514	35882	A	5560	3	1607	HCTRMSVKWTSVILLIQLSFCFS SGNCGKVLVWAAEYSHWMNI KTILDELIQRGHEVTVLASSASI LFDPNSSALKIEIYPTSLTKTEL ENFIMQQIKRWSDLPKDTFWLY FSQVQEIMSIFGDITRKFCCKDVV SNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYSLSFSPG YTFEKHSGGFIFPPSYVPVVMSE LTDQMTFMERVKNMIVVLYFD FWFEIFDMKKWDQFYSEVLGR PTTLSETMGKADVWLIRNSWN FQFPHPLLPNVDFVGGHCKPA KPLPKEMEDFVQSSGENGVVV FSLGSMVSNMTEERANVIASAL AQIPQKVLWRFDGD\KPDTLGL NTRLYKWIPQN\DLLGHPKTRA FITHGGANGIYEAIYHGIPMVG I PLFADQPDNIAHMKARGAAVR VDFNTMSSTDLLNALKRVINDP SYKENVMKLSRIQHDQPVKPL DRAVFWIEFVMRHKGAKHLRV AAHDLTWQYHSLDVIGFLLV CVATVIFIVTKCCLFCFWKFAR KAKKGKND
5515	35883	A	5561	2	1600	

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5516	35884	A	5562	2	1624	AATGKQALHCIRMSMKWTSAL LLIQLSCYFSSGSCGKVLVWPT EFSHWMNIKTILDELVQRGHEV TVLASSASISFDPNSPSTLKFEV YPVSLTKTEFEDIKQLVKRWA ELPKDTFWSYFSQVQEIMWTFN DILRKFCCKDIVSNKKLMKKLQE SRFDVVLADAVFPFGELLAELL KIPFVYRPRFSPGYAIEKHSGGL LFPPSYVPVVMSELSDQMTFIE RVKNMIYVLYFEFWQIFDMK KWDQFYSEVLGRPTTLSETMA KADIWLIRNYWDFQFPHPLLPN VEFVGGLHCKPAKPLKEME/E FVQSSGENGVVVFSLGSMVSNT SEERANVIASALAKIPQKVLWR FDGNKPDTLGLNTRLKYKWIPO NDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNI AHMKAKGAAVSLDFHTMSSTD LLNALKTVINDPLYKENAMKLS RIHHDQPVKPLDRAVFWIEFVM RHKGAKHLRVAADLTWFQY HSLDVTGFLACVATVIFITKC LFCVWKFVRTGKKGKRD
5517	35885	A	5563	1	225	
5518	35886	A	5564	1	3210	
5519	35887	A	5565	1	835	
5520	35888	A	5566	222	477	HPRCLSPKGILKYLTCKYLKKN NLRDWLRVVANSKESYELRYF QINQDEEEEEDED*ISFIWKILYE FLNKTWDPKKKKTKKKKK
5521	35889	A	5567	1	778	MAAAAAAAGDSDSWDADAFS VEDPVRKVGGGGTAGGDRWG GEDEDEDVKDNWDDDDDEKK EEAEVKPEVKISEKKKIAEKIKE KERQKKRQEEIKRLEEPEEP KVLTPEEQLADKLRLKKLQES DLELAKETFGVNNNAVYGDAM NPSSRDDFTEFGKLLKDINTQYE ESLYYARFLEVLVRDVCISLEID DLKKITNSLTVLCSEKQKQEKQ SKAKKKKKGVVPGGGLKATM KDDLADYGGYDGGYVQDYED
5522	35890	A	5568	1	897	
5523	35891	A	5569	1	2658	
5524	35892	A	5570	1	441	
5525	35893	A	5571	3	427	

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5526	35894	A	5572	1	952	PRLVLLKMAPLDDLDKYVEIARL CKYLPENDLKRLCDYVCDLLL EESNVQPVSTPVTVCGDHGGQF YDLCELFRTGGQVPDTNYIFMG DFVDRGYYSLETFTYLLALKAK WPDRTLLRGNHESRQITQVYG FYDDCLTKYGNANAWRYCTK VFDMLTVAALIDEQILCVHGGGL SPDIKTLA\QIRTIERNQEIPHKG AF\CDL\VWS\DPEDVDT\WAI\S PRGAGWLFGAK\VTN\EFGS*ST NLKLICRAHQLVHEGYKFMFD EKLVTVWSAPNYCYRCGNIASI MVFKDVNTREPKLFRVAPDSE RVIPPRTTTTPYFL
5527	35895	A	5573	54	588	
5528	35896	A	5574	1	4287	
5529	35897	A	5575	1	507	
5530	35898	A	5576	1	1416	
5531	35899	A	5577	1	841	ILLWDVDGGLTQIDKYLYSSED YIKSGALLACGIVNSGVRNECD PALALLSDYVLHNSNTMRLGSI FGLGLAYAGSNREDVLTLLLPV MGDSKSSMEVAGVTALACGMI AVGSCNGDVTSTILQTIMEKSE TELKDTYARWLPLGLGLNHLG KGEAIEAILAALEVVSFPFRSFA NTLVDVCAYAGSGNVLKVQQL LHICSEHFD\SKEKEEDKDKKEK KDKDKKEAPADMGAHQGVAV LGIALIAMGEEIGAEMALRTFG HLLRYGEPTLRRVPLALAL
5532	35900	A	5578	2	391	AFGVTEPGCYGVIDVDTGKSTL FVPRLPASHATWMGKL/HSVLT SQKPSVLLTLRGVNTDSGSVCR EASFDGISKFEVNNILHPEIVE CRVFKTDMELEVLRVTNKISSE AHREVMKAVKVGMKEYELER

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5533	35901	A	5579	18	1541	RRCRANMAAATGPSFWLGNET LKVPLALFALNRQRLCERLRKN PAVQAGSIVVLQGGREETQRYCT DTGVLFRQESFFHWAFGVTEPG CYGVIDVDTGKSTLFVPRLPAS HATWMGKIHSKEHFKEYAVD DVQYVDEIASVLTSQKPSVLLT LRGVNTDSGSVCREASFDGISK FEVNNTILHPEIVECRVFKTNDM ELAEVLRVTNKISS\EAHREV\MK AVKSGEWKEYGVGKASFEHY\ CYSRG\GMRH\TSYTCILRAVG *GTSAVLTFTGH\AGAPNDRTIQ NGDMCLFDMGGEYYSVSDIT CSFPRNGKFTADQ\KAVYEAVL LSSRAVMGAMKPGDWWPDM\ HRLAYRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHF LGIDVHDVGGYPEGVERIDEPG LRSLRTARHLQPGMVLTVEPGI YFIDHLLDEALADPARASFLNR EVLQRFRGFGGVRIEEDVVVID SGIELLTCVPRTVEEIEACMAGC DKAFTPFSGPK
5534	35902	A	5580	1	98	
5535	35903	A	5581	1	810	

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5536	35904	A	5582	1	861	MLKEIIDDITNKWKHIPCSWMG RISIVKMTILPKAIYKFNAVLKI PPSFFTELEKTILKFLCNEKRAS RAKARLNKKNKSGGITLLDFKR YYSIAIVTKTVWYWKYKNRHIHQ RNRIENPEINPNTYSQIFNKAN KNIKWGNDTLFSKWCWDNWL ATCRRMKLDPHLSPTKINSRW IKDLILRPETTKILEDNIGKTLLD VGLGKDFMTKNPKANARKAKI NIWDLIKLSFFTAAGTVSRVN RQPTWEKIFIHTSDEGLLISRI YNELKQISKKK\TNNPIKKWAK DMNRQFSKEDVQMANKYMKK CSTSLIANLICREMQIKTTMQY HLTPARMAIHKSKISRCWHGC GDQGTLLHCWWECKLVQPLW KTVWRFLKELKVELPFDPAIPL LGTHPEEKSLCKKDTCTCMLL AAQFTIAKSWNQPKCPSVNEWI KKLCPRWLLSKWASA*NKWK HIPCSWMGRISIVKMTILPKAIY KFNAVLKIPPSFFTELEKTILKF LCNEKRASRAKARLNKKNKSG GITLLDFKRYYSIAIVTKTVWY WKYKNRHIHQNRNRIENPEINPNT YSQIFNKANKNIKWGNDTLFS KWCWDNWLATCRRMKLDPHL SPHTKINSRWIKDLILRPETTKIL EDNIGKTLLDVGLGKDFMTKN PKANARKAKINIWDLIKLSFF TAKGTVSRVNRQPTWEKIFIH
5537	35905	B	5583	473	1694	
5538	35906	A	5584	1	429	
5539	35907	A	5585	572	1149	PPVSHSMTLGNSYLFAPNWTIT PAW/CNTLDPSEGFQWQASLSL PSHQQFEHTCPEWLPTYSWPCK VGPDYLSEICQPECKQHFQESL TESSKQNIYETCAIYVSSPGERIL NQRFGPHGAFILVREYDDIRFS HSGPPSTCPNFPGPSYYTARESA YALKLRALEIIQISQSTKMQRNL GNPILPAIHQQPPQ
5540	35908	A	5586	1	804	
5541	35909	B	5587	1	1995	

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5542	35910	A	5588	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRNL *NRVKAIM/VGKAEWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHLKLLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFEWSPEQEKALQQVQAVV QAALPLGPYPADPVLLEMSV ADRDVWILWQAPISESQWRPP GFWKALPSSADNYSPFERQLL ACYWTLVETERLTMGHQTIPP ELPIMNWVFSDLSSPKMCHPQQ
5543	35911	A	5589	1	1337	MIISIDAEKAFDKIQPFMLKTL SKLEETASPPVATYTPQPMML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIRLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKYHIPGAITEISATIE DLKETGVVILTTSPPKSSIWPLQ KTDGSRMTVNYHKLNQVET PIAAVDPVVSLLLEQINTSPGT WYAAIDLNVVFFSIPVYKAHQK QFAFSWQQQYTFITLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTDLLPARVASWGVYPDQL T/GGRED*GLLHRWSCRICRHH
5544	35912	A	5590	2	693	KIVN/QKQYHIRGGIAEISATIKD SKDTGVVIPTTSPFNPIWPVW KTDGSWTITVDYHKLDQVVTPI AAAVPDVVSLLLEQINTSPGTWY AAINLENAFFSIPVHKANQ/KQF AFSWQQQYTIAPVLPQ/VKFLG IHWFVACQDIPSKIKDKLLHLA PPTNKKEAQCLVGLFGFWRQHI PHLRVLLQPIYQVTLKAAIFEW GPEQEKALQQVQAAVQAALPL GPYDPTDPMVLE



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5545	35913	A	5591	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEKSSQWAEALQAVYLV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRTSAEEEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLIH CYG IPHSIASDQSIHF/TTKEVQ*WAI AHGIHWSYHVSHHPEAAGL
5546	35914	A	5592	7	278	SASCTAAFHHQMEVVYTRSGS SRS*R\PTIPVIAQWDYDHNGHG GRDGGYPWAQQHELPLTKADL ATATAECPICQQQRPSLSPRCGT IPR
5547	35915	A	5593	1	237	
5548	35916	C	5594	63	116	
5549	35917	A	5595	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAWFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEALQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
5550	35918	A	5596	1	354	
5551	35919	A	5597	3	592	
5552	35920	A	5598	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVSVADKDAVWI FHLSGSDRWRRTYRCL
5553	35921	A	5599	1	483	
5554	35922	A	5600	1	1908	
5555	35923	B	5601	141	1569	
5556	35924	B	5602	46	1533	
5557	35925	A	5603	61	448	WRFLGPWRIVSCWFCGWEERR EGSAFFVGIPARMSAARESHPI GVKRSASPDDLGSNNWEAAY LGNEERKQKFLRLMGA/GKGEE DQKINEELESQYQHSMDSKLSG RYRRHCGLGFSEVEDHDGEGD

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5558	35926	A	5604	1	404	PWRIVSCWFCGWEERREGSAFF VGIPARMSAARESHPHGVKRSA SPDDDLGSSNWEAADLGNEER KQKFLRLMGAGKKEHTGRLVI GDHKSTSHFRTGVEDHDGEGDV AGDDDDDDDDSPDP*SPDDSES DSESE
5559	35927	A	5605	2	434	LGPWRIVSCWFCGWEERREGS AFFVGIPARMSAARESHPHGVK RSASPDDDFFLFAIMNGK*KIV NSHRCSVKAKSRQQLGSSNWE AADLGNEERKQKFLRLMGAGK KEHTGRLVIGDHKSTSHFRTGE ED*KINEELESQYQH
5560	35928	C	5606	909	1096	
5561	35929	A	5607	1	309	PQPAAMAAYIWVLIRHGESAW NLETFSGWYDATLSLAGHKE AKRGGQALRGLFQVPLAPEAV GTVWCSWRTPCALKQL*PRPL KRRLRILADRHAQTQPRPQQ
5562	35930	A	5608	93	914	SQSVPHQPQPAAMAAYK\VLV\ RHGESAWNLENRFSGWDDADL SPAGQRGGERFAAQALQDAGY EFDICFTSV\QKRAIRTLWTVL\ DAFDQMWLASGEGLWGFNER HYWGS*PGLN*KQKLAAKIG*G PRLKI\WRRSY\DVPPPPMEPDH PFYSNISKDRRYADLTEDQLPS C\ESLKDTIARALPFWNEEIVPQI KEGKRVLIAAHGNSLRGIVKHL EGLSEEAIMELNLPTGIPIVYEL DKNLKPIKPMQFLGDEETVRKA MEAVAAQGKAKK
5563	35931	A	5609	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSEMP
5564	35932	A	5610	1	663	
5565	35933	A	5611	1	2034	

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5566	35934	A	5612	374	1106	IPVSERQGS DWRFFSVYVVNKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQD\TFK\LV\CYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YE\Y\SDFALKNP\F\YSLEMPIR CELFDQNLKLALEVAEKAGTF
5567	35935	A	5613	1	336	
5568	35936	B	5614	60	2175	
5569	35937	A	5615	2	198	
5570	35938	A	5616	1	449	
5571	35939	A	5617	1	771	
5572	35940	A	5618	18	736	EAMSSKVSRDTLYEAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGT/VQVGTVLIPPS PQCPRACPSAGSR*AGGGHVG TDVLG*FRPPAPGRRGWTDPHP GS*NMRGGVGRPRSPASLRS QAGCW*M*TLRVRLGWLLRSQ TLHRALGTPGLGVTCWCCPPK RRLKSTPRPKFSVCVLGDQQHC DEAKAVDIPHMDIEALKKLNK NKKLVKKLAKKYDAFLASESLI
5573	35941	A	5619	24	698	EAMSSKVSRDTLYDAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGTVRLKSTPRPKF SVCVLGDQQHCDEAKAVDIPH MDIEALKKLNKNKKTGSRSWP KKYDAFLA/SQSPLIQADSPKSL GPSLNKGRKSSPSLLTHNKNM VAKVDEVKSTIKFPNWRRCLCL AVAVGHVKMTDDELVYNIHLA VNFLVSLLKKNWQNVRLYIK SPMGKPQRLY
5574	35942	A	5620	1	843	

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5575	35943	A	5621	3	1215	LLIMADPRDKALQDYRKKLLE HKEIDGRLKELREQLKELTKQY EKSENDLKALQSV\GQIVGEVL KQLTVEEFIVKATNGPRYVVG C\RRQL*QKVSLKPGTRV\A\AD MTTLT\IMEDILPR\EVDPLVYN MS\HEDPG\NVSYSEIGGLSE\QI RGI*GEVIGLPLYKPQSYFQRVG IIPPK\GCLLYG\PPGTGKNT/L\A RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRRFSEGTSADRE IQRTLMELLNQMDGFDTLHRV KMTMATNRPD\LDLPALLRPGK LDRKIHIDL\NEQARLDIL\KIIIA GPITKHGVEIDYE\IVKLSDG\FN GADLRNVCT\EAGMF\AIRADHD FVSTGKTS\KAV\RKVADSKKL ESKLDYKPV
5576	35944	A	5622	104	173	
5577	35945	A	5623	1	1140	
5578	35946	A	5624	1	528	
5579	35947	A	5625	1	1083	
5580	35948	A	5626	1	471	
5581	35949	A	5627	1	2322	
5582	35950	A	5628	1	678	
5583	35951	B	5629	213	1477	
5584	35952	A	5630	2	339	FGLHKWGLGLEASSPCG\PLTPS YLGFRPHPGTLGLGRFWPFLA LQSLSETPSHARM\PRVT\VARIS PETLEISPLRAAT*NHRSSGHTC FRERMLRVSCRLSLDLSSSWVR
5585	35953	A	5631	1	783	

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5586	35954	A	5632	92	2746	ASRMTVLQEPVQAAIWQALNH YAYRDAVFLAERLYAEVHSEE ALFLLATCYRSGKAYKAYRL LKGHSCTTPQCKYLLAKCCVD LSKLAEGEQILSGGVFNKQKSH DDIVTEFGDSACFTLSLLGHGH VQTERAAKGTAFAFSPKRLCLHTF P\WTPLEPLVEIGERPLPHQTFN\ FTS*RNFANCLHTSGTKQVTN\ HVFSHRQPETVLTETPQ\DTIEL NRLNLESSNSKYSLNTDSSVSYI DSAVISPDVPLGTG\TSILSKP VQ\NKPKTGRSLLGGPAALSPL TPKFWGFLPIRKPP\SPG\DGS\Y LQNYTNTPPVIDVPSTGAPSKK TFRVLQSVARIGQTGTSVFSQ SGNSREVTPILAQTQSSGPQTST TPQVLSPTITSPNALPRRSSRLF TSDSSTTKENSKKLKMKFPPKIP NRKTKSKTNKGGITQPNINDSL EITKLDSSIIEGKISTITPQIQAF NLQKAAAEGLMSSLREMGKG YLALCSYNCKEAINILSHLPSHH YNTGWVLCQIGRAYFELSEYM QAERIFSEVRRIENYRVEGMEIY STTLWHLQKDVALSVLSKDLT DMDKNPESGTQRGRESPRMC GADSQIEKSQSSYFIQDLSRFDY VKFAVVTKIRAWCAAGNCFSL QREHDIAIKFFQRAIQVDPNYA YAYTLLGHEFVLTEELDKALAC FRNAIRVNPRIHYNWYGLGMI
5587	35955	A	5633	260	678	GEFSIFFVWVN*LLLWHQETFS I*NLFFSH*TSITYQATEEGDFII QMKLIIHFGDSIFIYLLKLLILNRK P**EAAISI*V*TWRSRFSHFQLR *HQTQVTNHSWFTEAR*LTDLV KSKSPTIPCSRFKANTLF**SDP
5588	35956	A	5634	1	1452	
5589	35957	A	5635	2	1563	
5590	35958	A	5636	1	444	
5591	35959	A	5637	2	345	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5592	35960	A	5638	2	1721	RSREAAAVAAAAATTAFGCRI WNPCAALTMKQSSNVPAFLSK LWTLVEETHTNEFITWSQNGQS FLVLDEQRFakeILPKYFKHNN MASFVRQLNMYGFRKVVIDS GIVKQERDGPVEFQHPYFKQGQ DDLLENIKRKVSSSKPEENKIRQ EDLTKIISSAQKVQIKQETIESRL SELKSENESESLWKEVSELRAKHA QQQQVIRKIVQFIVTLVQNNQL VSLKRKRPLLLNTNGAQKKNL FQHIVKEPTDNHHHKVPHSRTE GLKPRERISDDIIYDVTDDNAD EENIPVIPETNEDVISDPSNCSQY PDIVIVEDDNEDEYAPVIQSSEQ NEPARESLSSGSDGSSPLMSSA VQLNGSSSLTS\EDPV\TMDGFP FGMDNIQSF\WGRVEL\LDY\LDS IDCSLEDFQAMLSGRQFSIDPDL LVDLFTSSVQMNPTDYINNTKS ENKGLETTK\NNVVQPVSEEGK ENLKSKPDK\QLIQYTAFFLLAF LDG\NPASSV*TGRGTTASFRKF CPL*DKPIEVDELDDSSLDPEPT QSKLVRLEPLTEAEASEATLFY LCELAPAPLDSMDPLDS
5593	35961	A	5639	2	251	
5594	35962	A	5640	70	297	QLRSPLKWKAQRQPLAIAHV LLLPRKRKRQNGFFTVRYARLL STLPRSWRRKQWY*AQNHVRS PEWKWHYQSLS
5595	35963	A	5641	3	985	
5596	35964	A	5642	1	3501	
5597	35965	A	5643	1	1752	
5598	35966	C	5644	1	879	
5599	35967	A	5645	21	519	LHIPVRTLS\CRFVGVCWRSTPG PVCLGISSGGC\RTVDIAALQLW LRGLALPEQLLRVD\PHPQACRR LPREPP\GPGQTFGTREPPQAVS TKEASSSNLHAPERTVAGLTFT TEQVRALEGVFRHHQYLGPLE RNWLAREMQLS\RSR*KPGFKI AG*NTNGKCRTPS
5600	35968	A	5646	90	2401	
5601	35969	A	5647	776	1018	
5602	35970	B	5648	1	1296	
5603	35971	A	5649	1	1257	
5604	35972	A	5650	731	4841	
5605	35973	A	5651	325	9497	
5606	35974	A	5652	1	322	
5607	35975	A	5653	1	819	

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5608	35976	A	5654	56	251	
5609	35977	A	5655	149	701	
5610	35978	A	5656	3	415	
5611	35979	A	5657	3	467	AIASPRAAGIRHELTSTMAAGK NKRLTKGGKKGAKKKAV/DNII NIGKTLVTRTQRTKIASDGLKG RVFEESLADLQND\TDGYLLRVI *VAFTTERTNQI/REVFNKLIPDS IGKDIEKACQSIYPLHDDFARK VKMLKKPKFELRKLMEHGE
5612	35980	A	5658	2	418	PRVRADGKNFRLTKGGELGAR NKVVDPFSKKDWYDVKAPAM FNIRNIGKTLVSRTQGTKIASDG LKGRVFEARLADLQNDVAFIK CKLITDDVHGKNCLTIFHGMDL TRDKM\CSLGKKWQTMIEAHV DVKTTDGYLL
5613	35981	A	5659	3	121	
5614	35982	A	5660	1	237	
5615	35983	A	5661	25	967	FSPAAGIRHEGSLTSTMAVGKN KRLTKG\GKKGS\KKKVDPFP RKDWY*RRKHPLMFHYKNIG KTLVTQDPKGPKIASDGLQGF VCLKVSLADLQ\NDEVASRK\F RLITEVCFRGKNLP*LTSHGAW DLYPVTKMCSHGQKNWQT\MI DSSR*MFKTNPMGYLALRLFLC /VGFT*KNRNQFRLRKAPPYAS ATQQVPPKSRKKM\ME\IMTPR GARQNDLEKKWVNKLIPRQAL GKDIRKGPAQSYFIPLHDVLR EKLKLLLEGSPKF*IGESSLGASM GGRAVVPKGSHLGTQTGAKVG TSLMGYEPPVPRILV

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5616	35984	A	5662	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTROGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHRSWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM



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5617	35985	A	5663	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKLLIHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDA EKA FDKIQQPF MLKTLNKLELEETT VKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTD SLFNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYA AKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRHAPFSIH THIMFGSLYLQIQKDLSILGFW YPRGILEPIY
5618	35986	A	5664	1	1910	MTIIIIIIIIITIIIIIVHIITINIVIT TTILT TVIISSTIIIIITIFVFETGAI KLEIRIKKLTQNRSATWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTCQNLWDTFKAINKID RPLARLIKKKREKNQIDA KND KGDITTDTTGIQT TIREYYKHL Y ANKLENREEMDKFFDTYTL PRL NQEEVESLNR PITGSKIEEIINSL SIKKSPGPDGFTA E FYQRYKEE LVPFLKL LFOSIEKEGIILNSCCE ASHILIPKGRD TT KKENFRPISL MNIDAKILNKTLANRIQQHITK LIHHVQVGFI PGMQGWFNIRKS INNWKKTTLKLIWNQKRACITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEIIPHTYNYLSFDKPDKN KKWGNNSLFNKWCWENWLAI CRKLKLD PFLTLYTKINSRWIK DLNFGTETIKTLEENLGNTI HDI GMGKDFMSKTPKAKATKAKID KWDLIKLSFCTAKETTIRVNR QPTWEKIFAIYPSDKGLISRIY KELKQVYKKKTNNPIKKWAKD TNRHFSNEDIYA ANRHMKKCS SSLAIREMQIKTTMRYHLAPVR MTIIKKSGSNRQ/W*ASGHVRC

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5619	35987	A	5665	1	2460	MPHAGHARSPGHTLIKLAEWWM MSRWMEWNPGFPLSIDAKCHK DLPRDIQFDSEKGVDFVLNYSK ALNQEEVESLNRPTGSEIEAIIN SLPTQKSSGPDGFTAIFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRYTHKKNNFRPI SLMNIDAKILNKILANRIQQHIK KLIHQDQVGIIPGMQSWFNIHK SINVIQHINRTKDKNHMIISIDAE KAFDKIQQPFMLKTLNKL\GIK YLRIQLTRDVKDLFKENYKSL NEIKEDTNKWKNIPCSWIGRMN IHKMAI/LPKVIYRFNVIPIKLPMT FFSELEKSTLKFIWNQKRARIAK TILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEMTPHIYNHLIFDKPDKN KQWGKDSL FNKWCWENWLAI GRQLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI SMGKDFMSKTPKAMATKAKM DKWDLIKLKSFACTAKETTIRVN RQPTWEKNFAIYSSDKGLISRI YKQLKQIYKKKTNNPIKKWAK DMNRHFSKEDVYAANRHMKK CSSSLAIREMQIKTIMIYHLTPV TMAIIKKSNNRCWRGCGEMG TLLYCWWDCCLVQPLWKTW QFLRDLELGIPFDPAIPLGIYPK DYKSCCYKDTCTPKLARDDQI HILKQHRRKELETRQKQYRAW
5620	35988	A	5666	689	1909	LIAYQPKKSRTRWIHNQILPERI KYLGIQLTRDVKDLKEKYKPL LNEIKEDINKWKNIPCSWIGRIN LVKMAIL/PQAICRKLKLDPFLT TYTKINSRWIKDLHVRPKTTKT LEENLGNTIQDIGMGKDFMSKT PKAMATEAKIDKWDLIKRKSFC AAKETTTRVNRPQTDWEKMFA IYSSDKGLISRIYEELKQIYKKK TNNPINKWAKDMNRHFSKEDI YAANRHMKKCSSSLAIREMQIK TTVSPFAAQWVSQRYGKWQEA HPSNNDGKGYRGKPRFQSLSD VHGPDQDKKIIKESALPPTPTFI NILMNAKTIENGQFPYLLNALK QQQPHDAENLFTWGKENAAIV SPCIEVSAALSQWKVPAWPQRS GIPNRILRSPIGLGSWVAFLDL VWVRGDPTALK

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5621	35989	B	5667	1	1962	
5622	35990	B	5668	1	1851	
5623	35991	A	5669	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMISIDA EKA FDKIQQLFMLKTLNKL GIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVS GYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNYLIFD KPDKNKQWGKGS LFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMD FMSKTPKAMAT KDKIDK WDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYA AKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIHKKSGNNRCWRGC GEIGTLLHCW WINWMKKTWH IYTM EYYASIKKNEFMSFAGA* MKLETII
5624	35992	A	5670	2	1967	

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5625	35993	A	5671	1039	2272	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNikleEETTvkfiwnq KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSLFNKWC WENWLAICRKLKLDPLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKKSGNN
5626	35994	A	5672	1	3477	
5627	35995	A	5673	1	2814	
5628	35996	A	5674	1	2093	
5629	35997	A	5675	1	2724	
5630	35998	A	5676	1	4680	MDKFLD TYTLPRLNQEEVESLN RPITGSEIVA IINSLPTKKDPGPD GFTAIFYQRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARITKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRAPSEIML PIYNYLIFDKPDKNKQWGKDSL FNKWCWENWLAICRKLKLDPL LTPYTKINSRWIK
5631	35999	B	5677	1	1989	
5632	36000	A	5678	1	2784	
5633	36001	B	5679	1	3573	
5634	36002	B	5680	1	2630	
5635	36003	A	5681	5339	10577	
5636	36004	A	5682	1	873	
5637	36005	A	5683	1	672	
5638	36006	A	5684	1	435	

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5639	36007	A	5685	1	1011	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLDPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDVFVVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVIRTHRK EAKNLEKRLDKM\VN RINSVEK TLNDPMELKTMARELCDACTS FSS*FNQVEEKVSVIEDQMDDEM K*EEKFREKRVKRNEQSLQEIW DYVKRPNLRL
5640	36008	A	5686	1	1539	
5641	36009	A	5687	1	756	MDDPRLNVKPLTESLETYSGKS KLEGDVITDSKLNDCRCPSGT KLPEEGLGSNICCSAIFAVLQPL LVIPRQTGSGVDHQQTPTDLRM TVRRKMNKQKGIASSTSKRTK KDIHTKTPSVCHQHQRPKDCSP SPATEQSWMENDLEELTEIGFR RSVITNFSELKEDVRIHHKKAK NLGKRLDEWLTRINSVEKTLND LMELKTMARELHDSCTSFNSRS NQAEKVSVIDQFNEIKREEK FREK\RVKRN
5642	36010	A	5688	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLDPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDVFVVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVIRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACT'S FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QLQ*I WDYVERPNLRL
5643	36011	A	5689	1	672	
5644	36012	A	5690	1	807	
5645	36013	A	5691	1	1617	

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5646	36014	A	5692	1064	1893	LLEGSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSSASSPPKDC\SSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLKK RLDECLTRINSVEKKTLDLME LKTMAQELHDTCTSFNTQFDQ VEERVSVIEDQINEIK*EEKFRE KRVKINE*SCQEIWD*VKRPNI HLITVPESDGEKGTKLENTLQDI IQENFHNIARQANIQIEIQRTA QRYSSRTATPRHIVRFKAVEM KEKVLRAARKKG
5647	36015	A	5693	3	620	EAGWLLSSVDEVMMKENDEL DSISQLQKQILSLKSAKIALTESL ISFRERAEIVEKQTQALIM*VAD LQQGNDQTFQGLDGTGSELT PGDPKHHC GPPGPKV RAYGDQ VINGVLAQVQLVGPVGPWTHP VVISPVECVIGIAILNSWQNP GSLTGRVRAIMVGISWQGGQY TFTVLPQRYINFALCHKTAKR HTARR
5648	36016	A	5694	1	1098	
5649	36017	A	5695	2	563	IIRRAVFRWFWG*RSWGLNMIR PONTKDSNSNCLEKTDSPWCEL FKELYKINAFDTPDSLMLRGNE FSDPIHHTFDHMRWRTKEHNEA GWLLSSVDKVMKENDELGDS ISQLQKQILSLKSAKIALSESLIS CRERAEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
5650	36018	A	5696	1	499	FVLVDVNNMWHRYASMLYER RLLIICSKLSTLTACIHGFAAML YPMYWQHVI\PVLPPLLDYC CAPMPYLIGIHLSLMEKVRNMA LDDVVILNVDNTLTETPFDDLQ SLPNDVISSLKNRLKKVSTTTG DGVARAFLKAQAFFGSYRNA LKIEPEEPITFCEEA
5651	36019	A	5697	1	795	
5652	36020	A	5698	103	3531	
5653	36021	A	5699	1	2073	
5654	36022	A	5700	1	901	
5655	36023	A	5701	148	639	
5656	36024	A	5702	1	318	REYGTPQEQLNLALLTLNFLSL PKGQMLSAAEQHLQKPAAKTE A/GRMIWQRDPITKIWEIGKIIT WGRGYACVSPGQNHQSVWIPS RHLKSCHGPDAAKEEIPGGS

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5657	36025	A	5703	1	612	PTRPIKHITDIPYNSEGQAIVER MNLSLKQQLQKHKKGGK/SKD YGTPHMQLNLALLTLNFLSLPK GQILSVAEQHLQKPAAKTEAEQ LVWWRDPITKS*EIGKIITWGK GYACVSPGLTQQPIWIPSRHLK PYHEPDAEEEEIPGGSRGPPPPPV/ DSHVETDAEEEPHCHEQHLST ATHLGTDAQEAVTAGGRKPEES KTTSHNK
5658	36026	A	5704	2	791	
5659	36027	A	5705	2301	2620	DGQQALIALHRLALRELQQAGH AGLPQQAQKILFDGGSEIGKIRGL QRPRAKNRLSGRGPLREPSPK*F FGVQGRKTLNRTLKGAPH*NL AAKAGKPLSPCTSGRIRM
5660	36028	A	5706	1	1010	MDDIPQEAGRYRHNQAYAYS QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCHRLGNQ GSDLVLYGTSTPKNLIWVRVH VVGHRPDRRFFAFDVWSPRSLI VDSCSKLEQHSTLSRAILLIYKG FCRFRNHHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGFPTGKRAVSATQLMD FADFGTTIKQDFRLLGQTSVDR LLQLSQGANVQQFIDEGNYTS GDNHTLRDPHYVEDKGHKYLV FEANTGTENGYQGEESLFNKA YYGGGTNFFRKESQKLQQSAK KRDAELANGALGIIELNNDYTL KKVMKPLITSNTVTDEIERANV FKMNGKWYLFDTDSRGSKMTID GINSNDIYMLGYVSNSLTGPYK PLNKTGLVLQMGLDPNDVTFT YSHFAVPQAKGNNVVITSYMT RGSSR*RQRP*IPCIRSQHGNRK RIPR/SKNLYLTKRTTAAARTSS VKKARSFSRALKNAMLS*RTAP
5661	36029	B	5707	1	1149	
5662	36030	B	5708	55	3947	
5663	36031	B	5709	4	885	

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5664	36032	A	5710	461	1560	SLQTRDLPISPPSNRIFACWGK PAWTACCNSLRARR*RAISCCP SH*KRIPRRRIFI*PKRTTAAART SSVKKARSFSRALKNAMLS*RT APSVS*S*IMITH*KK**SR*SLQ TRDLPISPPSNR\FSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGIPDWKAGSERNAI NGAIALIEGFRPLTLEPSSI.IVNS CSKLEQHSTLSRAILLIYKGF FRNHHQTGFSPAGPNQRGPLAA TLGPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAA GTTGFPTGKRAVSATQLM
5665	36033	B	5711	1	1458	
5666	36034	B	5712	1	3573	
5667	36035	A	5713	606	1005	GGMLCGTSLGPDGEGQSAVAR LTGEKKHPRGDQ*QKAPLLAR W/RNPLMQLAQ/PDFPTGKRAI DTHRSVSHAHIIITHSSTLSSDIS HTDAPNTSSNNYVIAITSPSDTA PTSRTPLHRIHHTTPIPIATLARP
5668	36036	B	5714	1	1566	
5669	36037	C	5715	29	2314	
5670	36038	A	5716	597	1384	ISYTVPEALSARSNPAACQHAS CRPAACPVASVGSPPRQAPGGA GGHRHWPRRRWRLRQRPRPSA PGRPRRPRRPRRHHRRRPRPIH HHAPPPRPSCAETRS\RRGGGR PLPRPLPPGAAGAGHREVGDK AGAAGCGRRVVALAA\VPSPPS SPSSPSPSLLSAAVGVAGCFSAE LSDSRLLAPGGEGPLARSPAR CDPAAGSACPAGWSSRQSRSC ELMCAAGISCWHTGHCTWCSL SFMPLVLMILAASFRPVAVSSH
5671	36039	B	5717	1	3873	
5672	36040	C	5718	356	784	
5673	36041	A	5719	1303	1664	KRRDEIIPCVLKQLLVTFITCR ASCINESANARGEAVCVLGAR VV/SSFHQ*DGQQLIALHRLALR ELQQAVHAGLPQQAQILFDGGS EIGKIPYKSKE*PENRLSVVPVW EQUESTLASV



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5674	36042	A	5720	453	915	TVSRWAMLEHILLFSREPSNKE PET*AHSM*ADDKRFAAYKKK TKGGTERWDKYGRRPANGIRT GENNAKTEHLRDRDQKR/PRER ERAR*TTEITEQEGSG*GEPVEQ MRKRRAQAWSRRKSTGSQTET RSVRVTRVGLKTASESRRIRTM EQN
5675	36043	B	5721	319	1469	
5676	36044	B	5722	164	3112	
5677	36045	A	5723	1	1102	MRWTPGHEITKALQTFQRYTGI QHVRHIGMAERMWCDNRNR HTVSSSGGNRLPNPEHFQFQS VAQCTYNQTVQLDITAFKTV KKNKHKFYPAFIHILARLMNAH PEFRMAMKDVDSCSKLEQHST LSRAILLIYKGFCRFRNHHQTGF SPAGANQRGPLAATLSGPGGEG QSAVARLTGEKKNHPGAQYAN RLSPRVGRFINAAGTTGFPTGK RAVSATQLIYRELFPQPLVQLD PCSVPCMOPPTSPKSRAWVSDI ALLEFQKKKEMEKKKEKERKK ELQGGRRRRGGGWGKGRER GGRGKKRRGGGEAIRDAEKAG RLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGRRLRAEDVFPP VIGVAAHKGGVYKTSVSVHLA QDLALKGLRVLLVEGNDPQGT ASMYHGWWPDLHIHAEDTLLP FYLGEKDDVTYAIKPTCWPL DIIPSCALHRIETELMGKFDEG KLPTDPLMLRLAIETVAHDYD VIVIDSAPNLGIGTINVHPAWGS AISLLEYSFGHLAGFVASIPAPL QLVPRWDTKPVLEDASASSRFS IPQRNPTLHPTTSFPSCNPDTV DAWMRFLITWCLYTSPYSTLM GELFPFYQGMLLESTKQGSQVR KVFVWTLVPNWNNTQPYSRAI LLIYKGFCRFRNHHQTGFSPAG ANQRGPLAATLSGPGGEGQSA
5678	36046	B	5724	90	6258	
5679	36047	A	5725	837	1485	
5680	36048	A	5726	1	2993	
5681	36049	A	5727	1	123	
5682	36050	A	5728	1	960	
5683	36051	A	5729	507	755	NKRGYKQMEEHSLMGRKNQ YRKNGHTAQGNL*IQCHPHQA TNDLHHRIGKNDFQVHMEPKK SPHRQVNPKEQSWRHAT

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5684	36052	A	5730	274	882	PDQVDRGGAHWQTDADDPWL ADHLQHCQRCGEILRHYSGGIR GNVSAVKCAEHHVPAFARLRN PQCGDFQRLDYRLFDSPGVKRR EL*TAYRFCHVAP*LMDLRSG WAAGAVYRYQSH*FTADRLRS\ VDMDEAGNHHSQQT\SQDQKI KQRTFSLISGS*TTTRTHGHREGN ITHRGLSRPNTARILCASKAHLG LPLRSSLP
5685	36053	A	5731	114	329	
5686	36054	C	5732	1	1983	
5687	36055	C	5733	1	588	
5688	36056	A	5734	1	597	
5689	36057	A	5735	1	721	MTSYNEQNKKPVTDPNEMAIH EDSNQEFKIAVVNETQSPRSP TEHLMTPPLPTREQQPPLTVIF HYLPKSYKTAPPLSPFDSLFG SQPAPRDMDEAGNHHSQQTAK QEQTKHCMFSLTSGS*TMRTH GHREGTVIHRGLLGQFSQQLIN KSEFSNTVCREKSGRVLQVNM ESPL*MIQDALQDQTTPKGPITV FL*LFYLDHLLRSSHKVASYLST ESRSRGSITVLFIRCSEP
5690	36058	A	5736	417	696	DRNRKANTACFQHSQVGVEQ* EHMDTGKV*SI*YGNYEHTSTC ERMEIQKATTEHLNL*S*SGSFL RFTWKMLQFSKISR SFYQVLKH QQKIM
5691	36059	A	5737	325	1489	RSPTLLMHVHYIKVISWRELLI WLRAANASINPGVEQSPSGDPK TVTGPFPLRLEAADWVEEASVP KGVHIALSSQEQRAGDPRDLEA PSNLVISERTHRFRVSWTPPSD SVDRYKVEYYPVSGGKRQEVV RTPGV PDLRLPAIIPQAAWLLA HLPAPSAPTELPTKHTEAQSQ RCWSLLLCVTEVAAPSQVVK EAPPSFHTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLF TDSRGSKM TIDENKIPRNPTYKGREGPLQGE LQTTAQGNKRGYKQMEEHSM LMDRKNQYRENGLTAAQ\ PQQP PSGI*GYTAPCFPWENLI
5692	36060	B	5738	1	873	

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5693	36061	A	5739	274	716	QACYIYTTEYYAAIKNDEF/TVL CRDMDEAGNHHSQQTVTRTKN QTPHVLTHRWEINNENTWTQE GEHHTPGPVM LDSAPPTLGHQT PGSSAFGLWDLHQRLRLPRPQT KGSTVGFP GSEAFKLGLGHW LSFFPSLQTA YRGTL PPNH
5694	36062	B	5740	134	2283	
5695	36063	A	5741	3	872	
5696	36064	A	5742	1	480	SKLNSGDGCWSGARRGSAHSR SPLPSPLRPRAK MATEGLHENE TLASLKSEAESLKGKLEERAK LHDVELHQVAERV/VGPGAVC HEDQKDPQRPREQSPVHGLVQ R*EEDRELVTGWEGDRVGFLH HKQGARGH HALHVGDGMCLC PIGMCHCLWWFG
5697	36065	A	5743	3	387	AKMATEGLHENETLASLKSEA ESLKGKLEERAKLHDVELHQ VAERV/VGPGAVCHEDQKDPQ RPREQSPVHGLVQR*EEDREL VTGWEGDRVGFLH HKQDPDSER RWHMCPVGRGERAAAAELPRT
5698	36066	A	5744	1	1575	
5699	36067	A	5745	20	510	
5700	36068	A	5746	1	1392	
5701	36069	A	5747	1	1560	
5702	36070	A	5748	3	325	
5703	36071	C	5749	206	409	
5704	36072	A	5750	1	855	
5705	36073	C	5751	233	571	
5706	36074	A	5752	1	3600	
5707	36075	A	5753	1	4137	
5708	36076	A	5754	3	1357	
5709	36077	A	5755	3	194	
5710	36078	A	5756	3	269	
5711	36079	A	5757	1	1770	
5712	36080	A	5758	164	411	RKNRKPNTAFLTHKWELNNEN TWTQGGNITHQG\CWGVQG*R RDSIRRNT*CKCRVPGCSKPPW HVYTYVTNLHILHMYPR

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5713	36081	A	5759	1	3095	MKMADAKQKRNEQLKRWIGS ETDLEPPVVKRQKTKVKFDDG AVFLAACSSGDTDEVLLKLLHR GADINYANVDGLTALHQACID DNVDMVKFLVENGANINQPDN EGWIPLHAAASCGLDIAEFLIG QGAHVGAVNSEGDTPLDIAEEE AMEELLQNEVNRQGV DIEAAR KEERIMLRDARQWLNSGHIN DVRHAKSGGTALHVAAAKGY TEVLKLLIQAGYDVNIKDYDG WTPLHAAAHWGKEEACRILVD
5714	36082	A	5760	1	591	FTVTRCYAVAQEGTYFDGSGY AALVKEGYKVQSDVNITLEVS N\PRRNGVFLGISTAIVHAIGLEL VDGKVL FHVNNAGRITAAYE PKTATVLC DGK WHTLQANKSK HRITLIVDGN AVGAESPHTQSTS VDTNNPIYVGGYPAGVKQKCL RSQTSFRGCLRK LALIKSPQVQS FDFSRAFELHGVFLHSCPGTES
5715	36083	A	5761	340	739	
5716	36084	A	5762	1234	1897	
5717	36085	A	5763	1	4070	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSSQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
5718	36086	A	5764	1	972	

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5719	36087	A	5765	1	2193	MVPYSLLVTWLQKALGVRQY HVASVLCQRAKVMRPFEPKY IHYDLLEKNINIVCK*LNRPLTL SEKIVYRHPDDPTSQEIERGGTY LQQWPDSVTMQD/ATAQMAM LQFISSRL/SKVTMPSTIHCDHLI EAQLGSEKDLHQAKDINHEVY NFLATGSVKYGLSFWKPGSGII HQIILENYEYPGVLLIGTDSHTP NGGSLGGICIGVGA/DAVDVM TGIPWELKCPKVIGVKLMGSL GWTSPKDVILKVAGILTMKGG TGAIVEYHGPVVDISCTGMVT VCNMGLEIGTTTTVFHYNLRM KKYMSKTCQADIANLADEFKD HLVPDPGCHYDQLIEVNPSELK LHINGPFTPDLAHPVAEVGKVA EKEEWPLDI*VGLWG SCTNSSY EDMGCSAGVAKQALAHGLKC KSQFTITPCSEQIRASIEQDGYA QTLRDVGGIVLANACGPCIGQL HRKDINKQEKNIIVTSYNRNF GHNDTNPETHAFITSPETVTAL AIVGTLKFNPETNYLTGKDGKK FKLEAPDADELPQAEFGPGQDT YQHPWPWGTTDHISAAGP*LKFR GHLDTISNNLLSGAINIENGKAN SVHDAVTHEFGPPDTARYKK YGISWVVID*NYGKGSSWEH AALEPRHL\GGRAITKSFARIHE TNLRRQGLLPLTFADPADNKIH LVDKLTIQSLKDLT/PGKPLKYI
5720	36088	B	5766	3	1205	
5721	36089	A	5767	435	1428	
5722	36090	A	5768	1	615	
5723	36091	A	5769	79	381	DKPQPHLQHTRTSKRLNRSSQA FLQNLLPQELATSAGNLAIRPR NACSLGFLVSRVPSLAATPRAP WNSGPRLS*LLPRSSRLSS*RL TLPDRLGSPVDH
5724	36092	A	5770	38	452	
5725	36093	A	5771	435	524	
5726	36094	A	5772	284	411	
5727	36095	A	5773	1	354	
5728	36096	B	5774	1	942	
5729	36097	A	5775	1	417	
5730	36098	A	5776	88	279	EDLGRSQSESLGPEFQG*VVAIE TIWPTPEPKIFTICLSGSHSQSPW NSGPRLS*LLPRSSQLSS*RLT LPNRLRSLQDHHRCR

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5731	36099	A	5777	206	816	FIDSM LSPSR YQ*LSSQNWKKL L*ISYGT KNEPA*PKQS*AQR TK LEASH*LTSNCTTSLH*SKQHGT GTKTEKKT*AIPFRT*AWAKTS* LKHQKQWQKPK*TKKIKYLG IQLTTDVKDLFKENYKPLLNEI KEDTNKWKNI PCSWIGGINIMK MAILPKVIYRFNALPIKIPMTFF TELEKTTLNFIWNQKRARI AKTI LSTKNKAGGITLADFKLYYKPT LVKTAWYWYQNREENLGNTIQ DIGMGKNFMTKTPKAMATKA KIDKRDLIKPKSFCIAKETTIRM NRQPTWEKLF AIYPSDKALIS GIYKDLKQIYKKKNPIKKWA KEMNRHFSKEDIYAANRHVK N AHHHWSSEKCKSKPQ
5732	36100	A	5778	502	600	
5733	36101	A	5779	51	452	ADKQLQQSLRIQNQCTKITSILI HQQQTNRPNHE*TPIHNC FKE NKIPRNPTYKGCEGPLQGELQT TAQGNKKGYKQMEEH SMLMG RKNQYRENGHTAQELEKTKVH MEPKKSPHRQVNP KPKEQSWR HHTT
5734	36102	A	5780	381	528	LPPPLPAGLC**DQQQNSNAPLI H*EKERPDDSYRIFLPRYHFHD DRI
5735	36103	A	5781	1	477	
5736	36104	A	5782	180	496	TPIHNCYKENKIPGNPTYKGCE GPLQGELQTTAQ*NKRGQKQM EEH SMLMDRKNKYHEN/EPYSP R*FIDSMPSPSNYQ*LSSQNWK KLL*GPYGTKKEPT*PRQS
5737	36105	A	5783	1	533	MGPEICTSKLSDEADVTVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEEHSIKWKNI PSSWVG RISIMKTAILPKVYIRIKDDEWN IYRRYTEFRSLHHLQNKYPQV RAYNFPPKKAIGNKEAVLCHG R*HDCISRKPHRLSPKSP*ADKQ LQQSLRIQNQCAKITSILIYQ*QT NREP NHE*TPIHNC FKENKIPRN PTYKGCEGPLQGELQTTAQGN KRGTFHQMEEHSILMGRKNQY HENGHTAQGLHPDKRR

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5738	36106	A	5784	599	870	TPANQQHYRRMTLQLKENQTN RKRRQQKQHQQKRP HKNPIQRS ATSKIKGDGSIQP*MLPWGQSP QKALTLATAPEQRKDTTPVVRGL SLQD
5739	36107	C	5785	1	1170	
5740	36108	A	5786	317	960	KWPYCPRQFIDSMPSPPSSYQRL SSQNWKLL*SSYGTKKEPTSP SQS*AKRTKLEASRYLTSNYTT RLQ*PKQHGTGKTEI*INGTQQ SPQK*/QPHVYNYLIFNKPEKKK QWGKDSL FNK WDMDEVGNHH SQQTITRTGNQTPHV FTHR WEL NNEITWTQGAGHHTPGPVVGL GAGRGIALREIPNANDELMVQQ TNMAHIYLCIKPARCADVP
5741	36109	A	5787	903	1050	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5742	36110	A	5788	281	491	SFGYIPSNMGAGSNGISSRSLR NRHTDFHNG*TSLSHQQCKSV PISPHPLQHLLFPDFLMIAILTV R
5743	36111	A	5789	1	381	
5744	36112	A	5790	1	3231	
5745	36113	A	5791	1312	1463	KGSATCSPPQANATTTTALQML GGIPWGNACGIFTRPPQTYLN THLSTR*RPLLLLLKCV R*KGSA TCSPQANATTTTALQMLGGIP WGNACGIFTRPPQTYLNTHLS TR
5746	36114	A	5792	811	1065	IS*VSFMSITH**WKKKEQQLLG CWLA*M*SMLICV*RERI*THKL E*LILCI*RMKKILEIQKGMFKL LPY*TKRIMLK/TLNRQLNSTVS SLHSRVDSEKSNTK LIEELAIA KNNIJKLQEENHQLRSENKLIL MKTQQHLEVTKVDVETELQTY KHSRQGLDEMYNEARRQLRDE SQLRQDVENELAVQVSMKHEI ELAMKLLKEDIHEKQDTLIGLR QQLEEVKAINIEMYQKLQGSSED GLKEKKEIIVRLYWSALCG
5747	36115	A	5793	1	1353	
5748	36116	A	5794	78	503	TKELLHSKRNYHQSEQATYRM GENFCNLLI*QRANIQLQ*TQT NLQEK NKQPHQKVGEYQQTL LKRRHLCSQKTHEKMLIITGHQ GNTNQNHNEIPSHTS*NGDH*K VRKKQGHG*SWKPSFSANYRK DKKPNTSCSHSQ

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5749	36117	A	5795	2	200	YGLMIRTIPVDPTIRTTSVSLTV RLATMNP RSRPAPVDTAPGPP HLHKNQKSSQHSQYLDLTSYC
5750	36118	A	5796	76	195	
5751	36119	A	5797	1	2445	
5752	36120	A	5798	207	475	TNLOEKNKQPHQKVKG GYEQT LLKRKHSCSQQTYEKM LIITGH QRNANQNHNDIPSHSS* NNDH* KDRKQQMLERM* RNRNAFTLL VGV
5753	36121	B	5799	1	681	
5754	36122	A	5800	1	798	
5755	36123	C	5801	78	245	
5756	36124	A	5802	16	491	EPYPDRPREPKRDPEWSWGLW DKGGLVLSLGRTRTEAHTALS RLRASMWIDRSTRVSVHFTLY NPPTQLFTSVSLRVEILPTGSLV PSSLVESFSIFRSDSALQYHML PQLVFLALSLIHL CVQLYRMMD KGVLSYWRKPRNWLEVASLVS FSFEK
5757	36125	A	5803	3	2791	
5758	36126	A	5804	219	392	
5759	36127	A	5805	1	1044	
5760	36128	A	5806	1	360	
5761	36129	A	5807	1	528	
5762	36130	A	5808	127	360	
5763	36131	A	5809	1	421	GRRSRLAMRPLSMSYSFDLSDV TTPESTKNLVESM VNGGLTSQ TKENGLSTSQQVPAQRKKLLR APTLAELDSSESEEE TLHKSTSS SSVSPSPFPEEPVL EAVFTRKKP PKFLPISSTPQPERRQPPQRRHSI EKETP
5764	36132	A	5810	328	1086	
5765	36133	A	5811	1	2076	
5766	36134	A	5812	1	450	
5767	36135	A	5813	901	1506	
5768	36136	C	5814	17	106	
5769	36137	A	5815	24	330	ARDQPI/PKKGTV EGFEPADNK CLLRATDGKKKISTV VSSKEVN KFQMAYSNLLRANMDGLKKR DKKNKTKTKTSSSSSSSSSPA AATAATTAATTAATAAQ
5770	36138	A	5816	1	2247	
5771	36139	A	5817	1	339	
5772	36140	A	5818	3	463	
5773	36141	A	5819	3	83	
5774	36142	A	5820	1	642	
5775	36143	A	5821	2	583	
5776	36144	A	5822	193	409	



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5777	36145	A	5823	3	425	
5778	36146	A	5824	1	450	
5779	36147	B	5825	82	2096	
5780	36148	B	5826	1	1554	
5781	36149	A	5827	129	522	LCTDNIEITSKVHLHCSHHGAG LGTCSPCLCLSLPPPWPAPVQPEP PR*APPPAPQRPVPSTIQGRKRL QLHS*SQ*DH/DAHAKVCSFTPE PARPRTHQKEETPNTSEHQKKQ TPDTPPLRTVTLTARLHGF
5782	36150	A	5828	1	541	
5783	36151	A	5829	1	714	
5784	36152	A	5830	188	287	KELPSGGHYNCRAPSSPHAGS S*SGHQPNSSQ
5785	36153	A	5831	71	689	SPVLDDCPQGGLPSEESW/EQPV TRQYPLRPEVHKGLQNVKHLK APGLVRKCSSHCNTPILGVQKP NGQWRLVQDLRLINEAVVPLY PVVNPYTLTLLSQTPEEAWEFWMV LDLKDAFFCIPLHSDSQFLFAFE DPTDHTSQITWMVLPQGFDRDSP YLFGQALAQDLGHFSSRGTLVL QYADDLLFATSSEASCQQATLD LLNFLANQ
5786	36154	B	5832	45	1148	
5787	36155	C	5833	233	319	
5788	36156	C	5834	11	133	
5789	36157	A	5835	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQTWTWTF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5790	36158	A	5836	1	449	MNKELGISYKFCGMGRKTSVS AAKSVSATIPISRVQGLLQVLG QEVFLLLCQDQEEQAKREKRD QRKATALAMALRQTNLGGSER IENGAGQSPSRACYQCGLQGHE KKDYPTR/EPAAPCPLC*GNHW KMHCPRGQRSCDShLAITHL
5791	36159	A	5837	1	723	
5792	36160	A	5838	186	602	
5793	36161	A	5839	1	843	
5794	36162	B	5840	1	1779	
5795	36163	A	5841	1	1182	

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5796	36164	A	5842	23	302	LSQWKNRWTRTFLASLSVIANI LEPLLNLHVAVWLMLPN*S*V KKQVIM\FWNWWVLGLTDFKN EATDPRVCSWPCWLRSEAADL CGECYSS
5797	36165	B	5843	1	2622	
5798	36166	A	5844	279	1024	
5799	36167	A	5845	3	3619	
5800	36168	B	5846	1	1898	
5801	36169	A	5847	1	420	
5802	36170	A	5848	1	1632	
5803	36171	A	5849	1	597	KYLTKKTKQAASVEAVKMLDEI LLQLSASVPVDVMPGEFDPNTY TLPQQPLHPCMF/LATAYSTLQ LVTNPYQATIDGVRFLGTSGQN VSDIFRYSSMEDHLEILE*LRVR HISPTAPDTLGCYPFYFCGNTPS FGSKIIRGPEQTVLLVTPDFS ATQTACLVNLR/LACQPISFSG FGAEDDDLGGGLGWAPDSKKW
5804	36172	A	5850	1	1490	RDAARRALNLLGLGEAVWTKQ VRSVAMFSEQAAQRAHTLLSPP SANNATFARVPVATYTNSSQPF RLGERSFSRQYAHYATRLIQM RPFLENRAQQHWGSGVGVKKL CELQPEEKCCVVGTLFKAMPL QPSILREVSEEHNLLPQPPRSKY IHPDDELVLEDELQRIKLKGTID VSKLVTGTVLAVFGSVRDDGK FLVEDYCFADLAPQKPAPPLDT DRFVLLVSGGLGGGGGESLLG TQLLV DVVTGQLGDEGEQCSA AHVSRVILAGNLLSHSTQSRDSI NKAKYLTKKTKQAASVEAVKM LDEILLQLSASVPVDVMPGE\FD PTNYTLPQQPLHP\CMFPLATA YSTLQLVTNPYQATIDGVRFLG TSGQNVSDIFRYSSMEDHLEILE WTLRVRHISPTAPDTLGCYPFY KTDPFIFPECPHVYFCGNTPSFG SKIIRGPEQTVLLVTPDFSAT QTACLVNLRSLACQPISFSGFG AEDDDLGGGLGLGP
5805	36173	B	5851	13	441	
5806	36174	A	5852	3	279	

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5807	36175	A	5853	23	841	EKAKEFRRAEEKKKEVPAVPET LKKK\*RNFAELKIKRLRKKFA QKMLQRARRKFIHEKAKH\YH KEYRQMYRTIELMA\RMARKA GNFYVPAEPKLA\FVIRIRGINGV SPKVRK\VLQLLRLRQIFNGNLI. *SSTKAS\NMLRDCRSHILAWG VPQILKSVNELIYK\RGYGKINK KRIA\LDN\ALIARSLGK\YGIL LAWEDLIHEIYTV\GK\RFKEAN NFPVGPSNLSSPPRWK*KKKTT HFCKKVEDAGNREGRTSRNP YLEGMDLRCLP
5808	36176	C	5854	57	287	
5809	36177	A	5855	1	450	
5810	36178	A	5856	1	549	
5811	36179	A	5857	3	581	EQRKIPLVPENLLKKRKAYQAL KATQAKQALLAKKEQKKKGK LRFKRLESFLHDSWRQKRDKV RLRRLEVKPHALELPDKHISLAF VVRIERIDGVSLLVQRTIARLRL KKIFSGVVFVKVTPQNLKMLRIV EPYVTWGFNPKSVRELILKRG QA\KVKNKTIPLTDNTVIEEHLG ECYSLGVSWGRKPGSLKL

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5812	36180	A	5858	1	2652	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLYHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDDEHR NRGKLSDLVAEHLHLHYLND ILIINCEFLNDVLTDLHLNRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHLCGAQAAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCYQRR QVLSTRLQEALPSNRLTDVAAV HSSCMLGFGSTAPRGSWIGDPA AVHPLPLGELAEHLGSKGTTTV TKHQPAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEEKGPTEDAQEDAE KAKGTEGGSKGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNKENLLKKRKAYQ ALKATQAKQELLAKKEQKKGK GLRFKLLESFLHDYWQKPKDK
5813	36181	A	5859	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLGGEVRQEETFSIS DSQISNTEFLQVIKVGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVLLFSFISTANNSTHA LEYVLFPRNRRYNQRISLAIPN
5814	36182	B	5860	1	843	

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5815	36183	A	5861	3	1260	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGVEVRQEETFSISD SQISNTEFLQVIQIYNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIGWYRFRNTQQQMSYR EQVLHKQLTRILGVPDLVFLLF SFISTANNSTHALEYVLFPPNRR YNQRISLAIPNLGNTSQQEYKV SSVPNTSQSYAKVIKEHGTDF DKDGVMDIRAIYQVYNALQE KVQAVCADVEKSERVVECSQA EVNKLRRQITQRKNEKEQERRL QQAVLSRQMPSESLDPAFSPRM PSSGFAAEGRSTLGDAEASDPP PPYSDFHPNNQESTLSHSRMER SVFMPRPQAVGSSNYASTSAGL KYPGSGADLPPPQRAAGDSGE DSDDSDYENLIDPTEPSNSEYSH SKDSRPMAPDEDPRTQTSTQI
5816	36184	A	5862	1	742	
5817	36185	A	5863	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFVQNCLS LARSDSREQGLVLMESRNRE VPPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAEEC GDDEKIKVDDPLTRRTCNQASG SAPQQDYDKLKAFFGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
5818	36186	A	5864	2	626	LCQHNRIKHKGIRKVYACSHCP DSRRTFTKRLMLEKHVQLMHS LKDPDLKE/TDRCHQ*GGNRNK RRH/LSSPVPSGSWKNQFSR/CA MCGFTTENLLQFHEHIPQHKSD SSSYQCQECGLWYTSHVSLSRH LFIVHKLKEPQPVSKQNGAGED NQENKPSHEDESPNGTVSDRK CKVCVKTFETEAALNTHMRIH GMAFIKSKRMSSAKK

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5819	36187	A	5865	1	765	MQRDVYISHVRKEHGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRPPQGPQ SQVEVERTGSGVQASQ\GAITQ PLKKLKINVFVHKCARA\GFT TENLLQFHEHIPQHKSDGSSYQ CREHLFVVHKLKEPQPVSKQN GAGEDNQENKPSHEDESPNG AMSDRKCKVCAKTFETEALN THMQTHGMAFIKSKRMSSDEK
5820	36188	A	5866	878	1095	AFFLDTLYTQFSRC*SRAFPFA HPTAMACSSRR/LIRVQEQDAA QVTHQSFKDDLCVVLGDTLHH RFFLI FRH
5821	36189	A	5867	1	1137	
5822	36190	A	5868	1	1380	
5823	36191	A	5869	55	558	
5824	36192	A	5870	1	897	
5825	36193	A	5871	1	565	
5826	36194	B	5872	22	1696	
5827	36195	A	5873	295	522	
5828	36196	A	5874	3	3678	IPAPVSGRPPPGLLAEGKLSGPR PMCRTRLGSHTAASAPARMWL FHTLLCIASLALLAAFNVDVAR PWLTPKGGAPFVLSSLLHQDPS TNQTWLLVTSRTPKRTGPLHR CSLVQDEILCHPVEHVPIPKGRH RGVTVVRSHHGVLICIQVLVRR PHSLSSELTGTCSLLGPDLRPQA QANFFDLENLLDPDARVDTGD CYSNKEGGEDDVNTARQRRRA LEKEEEEDKEEEDEEEEEEAGT EIAIILDGSGSID
5829	36197	A	5875	1	3189	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5830	36198	A	5876	1119	2463	LRAGGPGQGKGPAHPGRRVD ELLGHPTAVGCAKGTDCPTPT PGGLWV*GVQEESDLPTAVDS SRPDIRDQAWASVHWELVYVHG SSFINT*GERGAGY/AVITW/STV VEARSMPQGTSAQKAELIAFIR ALELSEALAKTVRQRCVSCRQ HHARQGPVPPGIQAYGAAPFE DLQVDFTEMPKCGDIRKIVTGD VNTPAILGVVSSPPSHIGNNITE DPELQPILAGLSLSMYLVTVLR NLLIILAVSSDPHLHTPMCFFLS NLCWADIGFTLATVPKMIVDM QSHTRVISYEGCLTRISFLVLFA CIEDMLLTVMAYDCFVAICRPL HYPVIVNPHLCVFFLLVYFFLSL LDSQLHSWIVLQFTIHKNEISN FVCDPSQLLKLACSDSVINSIFM YFHSTMFGFLPISGILLSYKIVP SILRISSSDGKYKAFSTCGSHLA
5831	36199	B	5877	1	1830	
5832	36200	C	5878	109	245	
5833	36201	B	5879	1	801	
5834	36202	B	5880	171	288	
5835	36203	B	5881	49	502	
5836	36204	B	5882	1	639	
5837	36205	A	5883	1	821	MSGQFDFLLWTPEEDNSDES AEGEHGDGAEEEEAPPPVPRGP KPAGLGRRPCPYEQAQGGDGP EEQWMSFCWDIPRKSGAPRERI TLRRHLEDGCKVSKKKAQICR QQKDPQEESPAQFYERLCEAYG MYTPFDPSPENQRMIMHALV RQSAEDMRRLQKQAGLAGM NPSQLLERASQVFVNRDAV/TP* GKQQREWRRG*YDSQYRRGG TQPCDIVPNIRRERR*YHSQYRR RARPPGPH*SERGALRPGSLPRQ AA*RVPSGPADGQ
5838	36206	A	5884	1	1860	

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5839	36207	A	5885	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQ\PSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVPDPSSAMM/SR RAHRSRGPDRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQTQHPEEPDAHQPYKH LFQVCAHQGHVPAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
5840	36208	B	5886	1	2379	
5841	36209	B	5887	1	6741	
5842	36210	B	5888	165	928	
5843	36211	A	5889	56	2028	
5844	36212	B	5890	1335	3804	
5845	36213	A	5891	365	1573	
5846	36214	A	5892	1	1491	
5847	36215	A	5893	25	458	
5848	36216	A	5894	1	1194	MGGNAADKFRAGVELALQSG NKVCVCSPTTISGDAVAPRSV LPGCRHIPGEISQHSWCWAGRS LSSRKRGS\LRMRMGFIKVVKNK AYFKRYQVKFRRR\RKGKT\DY YARKR\LVIQDKNKYNTPKY\R MIV\RVNTNRD\NCQMLYA\RRIE GDMIVCAAYCTPNLPKIWV*RV GLTNYAAAYCTGLLLAARRLL NRFGMDKIYEGQV\ELTGDEYN VESIDGQPGAFTCYLDAGLAR\ TTTGNKVFGAPEGKLWMGGLS IPHSTK\RFPGYDSEISKEFNA\E VTSGKHIMGPKCLQNYM\RYL ME\ED\EDAYKK\QFS\QYIK\NS VT\PDMM\EEYK\KAHAARE ESSSMEKKAQGGKFKKKRWNR PKMSLAQKKDRVAQKKASFL QSSRSGLLESLTPAIFP
5849	36217	A	5895	1	1191	
5850	36218	A	5896	21	159	PRSSVRPAGGFSSTCPPSWAAS RSCTTSHGCGHQ*CAGTGTQTR L
5851	36219	A	5897	1	1062	
5852	36220	A	5898	1	246	
5853	36221	A	5899	1	642	
5854	36222	A	5900	2	648	
5855	36223	A	5901	1	555	
5856	36224	B	5902	151	513	



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5857	36225	A	5903	1	2915	VSLAFCQPLSLSLSPLLPLASSL APERTHLPGPSLLSPPSFPAR PREPRGCVTAAPDKMDTAAE DICRVCRSEGTPKPLYHPCVC TGSIKFIHQECLVQWLKHSRKE YCELCKHRFAFTPIYSPDMPSRL PIQDIFAGLVTSIGTAIRYWFHY TLVAFARWEVVLLPACRIYKCL FLGSVSSLLTLPLDMLSRKNLL ADCLQGCFVVTCTLCAFISLV WLREQIVHGGAPIWLEHAAPPF NAAGHHQNEA
5858	36226	A	5904	3	907	
5859	36227	B	5905	102	406	
5860	36228	B	5906	1	5241	
5861	36229	A	5907	1	519	
5862	36230	A	5908	1	3067	TRDAAMAEAALEAVRSELREF PAAARELCVPLAVPYLDKPPTP LHFYRDWVCPNRPCHRNALQH WPALQKWSLPYFRATVGSTEV SVAVTPDGYADAVRGDRFMM PAERRLPLSFVLDVLEGRAQHP GVLYVQKQCSNLPSELPQLLPD LESHVPWASEALGKMPDAVNF WLGEAAAVTSLHKDHYENLYC VVSGEKHFLFHPPSDRPFIPYEL YTPATYQLTEEGTFKVVDEEA MEKAEVSRTCLLTVRVLQA
5863	36231	A	5909	1	429	
5864	36232	A	5910	1	690	
5865	36233	A	5911	1	376	
5866	36234	A	5912	1	471	
5867	36235	A	5913	1	606	
5868	36236	A	5914	3	2756	SPGGRTPAARDSIVREVIQNSKE VLSLLQEKNPAFKPVLAIQAG DDNLMQEINQNLAEEAGLNITH ICLPPDSSEAEIIDEILKINEDTRV HGLALQISENLFSNKVLNALKP EKDVDGVTDINLGKLVRGDAH ECFVSPVAKAVIELLEKSGVNL DGKKILVVGAGHSLEAALQCLF QRKGSMTMSIQWKTRQLQSKL HEADIVVLGSPKPEEIPLTWIQP GTTVLNCSHDFLSGKVGCGSPR IHFGGLIEED
5869	36237	A	5915	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG

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5870	36238	A	5916	1	334	
5871	36239	A	5917	88	870	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEA\VRLKEKKLVKEVIAV\ SCGPAQCQETI\RTALA\MGA\D RGIHVE\VPPAEAERF/GVPLQV ARVLGQAWQRRRLDLVLLGK QAI\ACTDCNQ\TGQMTAGFLD WPQGTFFASQVTLEGDKLKVER EIDGGLET\RLKLPVV\TADLR LNEPRYA\TLP\NIMKAKKKKIE VIKPGDLGV\DLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
5872	36240	A	5918	1	774	
5873	36241	A	5919	1	1557	
5874	36242	A	5920	1	759	
5875	36243	A	5921	305	638	
5876	36244	A	5922	364	540	
5877	36245	A	5923	9	111	
5878	36246	A	5924	1	594	
5879	36247	A	5925	169	594	
5880	36248	A	5926	37	936	
5881	36249	B	5927	91	2043	

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5882	36250	A	5928	1	2298	MSRKGPRAEVCADCSAPDPGW ASISRGVLVCDECCSVHRSLSGR HISIVKHLRHSAPPTLLQMVH TLASNGANSIWEHSLLDPAQVQ SGRRKANPQDKVHPIKSEFIRA KYQMLAFVHKLSCRD\DDGVT AKDLASKAN*HSSVR\TGKPKW TCLRLLSLGA\QANFFHPEKGT TPLHVAAGQTLQAE\LVVY GADPGSPDVNGRTPIDYA\RQA GHHELAERLVE\QYELTERLA FYLCGRKPDHKNNGHYIIPQMA SLDSELAKAAKKKLQALSRL FEELAMDVYDEVDRRENDV WLATQNHSTLVTERSAVPFLPV NPEYSATRNQGRQKLARFNAR EFATLIIDILSEAKRRQQGKSLSS PTDNLELSLRSQSDLDDQHDYD SVASDEDTDQEPLRSTGATRSN RARSMDSSDLSGAVTLQEYL ELKKALATSEAKVQQLMKVNS SLSDELRRLQREIHKLQAE\NLQ LRQPPGPVPTPLPSERAHTPM APGGSTHRRDRQAFSMYEPGS ALKPFGGPPGDELTRLQPFHS TELEDDAIYSVHVPA\GLYRIRK GVSASAVPFTPSSPLLSCSQEGS RHTSKLSRHGSGADSDYENTQS GDPLLGLEGRFLELGKEEDFH PELESLDGDLDPGLPSTEDVILK TEQVTKNIQELLRAAQEFKHDS FVPCSEKIH\AVTEMASLFPKRP
5883	36251	A	5929	1	924	
5884	36252	A	5930	214	387	RRAFHPTPVTSARSTLHSFGQL RLPHSM*SGGTLLISMMQANQS LSLEFSKWTSPFLD
5885	36253	A	5931	1	1639	
5886	36254	A	5932	1	1098	
5887	36255	A	5933	1	546	NSSQVLQF*YLWVNEAPFRLLT MPQYPQINITADQLWGSVAVL V*MH\NGLPGLCI*AWKTTSG GEQYPSSSAIKQGPKEPYADFIA RLQESLKKVIADLAAQDIVLWL LAFDNANPECQAALRPIRGKAH LV\DYTKVCDGIRDKLHKATLL AQAMAGLRMGKGNTPFPGACF NCGKHGH

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5888	36256	A	5934	1	648	MGQVWGLVHFTLEVFTGDEE EQEYSEVTEDVTEHVYLP KAKAKKEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLNVTVSSQMIPTDGDPLT RACLTPAQFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\IT*CGEQYPSF
5889	36257	A	5935	120	254	
5890	36258	C	5936	366	479	
5891	36259	A	5937	1	933	
5892	36260	A	5938	1	840	MGKVWGLVHSTLELFHTDVEE EGEYNEVTEEVTKHVYLP KAAKEGEVHPYHSAPPHYFE ENDPPDLSFLEDGTGTPRLAAA TTKANAKQPLLLSPSMHR/PLP TRPLLAGQATALPQGV*PLIAP PTRPHLEHCSTQ*RPQPAPTLGE ITPVTVPQAPLHPRAVQPW/HST PTRSWLQAVMPGIAPPSRSPW AVQLRILTYLGCLSTTPAAVQS LSQPPASVRQARVPQAPASSLC QEKPPSPPPVAPHGAAAAARPP SYHSSCASVAVVAANVLIG
5893	36261	A	5939	1	134	MGQVW*KSQSPKA*EPGVSCP RAGRREASVPRWYSS
5894	36262	A	5940	1	1158	
5895	36263	A	5941	1	673	MGIALGSPTTGPKAMKQNL SIGPAGILLPQPVMTPGCPAA APPVAPRCGYVLSEDAWGNLQ GLCTGLSCGQPVPWATDSGGAQ DPVALLPPFPSRGLLGPSCMQ RSQVVKGGRQSEISSQNKKVIA DLAAQDIVLQLLAFDNANPDCA AALRPGRKAHLVDFIKACDVIG GIPNLLLHPRGLRAITIAVFGKQ IRTSGSNPLRSTFLSRSRISIKN CSAEV
5896	36264	A	5942	1	1182	

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5897	36265	A	5943	1056	2128	TQPPTWGQIKKLSQMVEENLR KAGQLVTMNNLMVAMIVVITT TEEQEYSEVTEEVTEQVYLPK AKVAKEGEVHPYPSAPPHYFFE EKEWPDPPDLSFLEDTRQKVVA PVTVRAAPRATVLSIQAGIQQ AR*EGDLEAWQFPVRIHPPDQQ GNIIVTFEPFPFKLFKEFKQAVN QYGPSPFVMGLLKNVAVSSW MIPTDWDALTRACLTQAQFLQF KTCAMKQGPPEPYVDFIARLQE SLKKMIADSAAQEIVLQLLAFD NAHPDCQAALRPIRGKAHLVD YVKACDGIGEYTPSTYEKKVN CKTASCRSFRRYPEEGIVITGDD SSMRVVVPEDLPVGQDVEVED RDIDDPDPV
5898	36266	A	5944	1	300	
5899	36267	A	5945	1	373	
5900	36268	A	5946	1	2976	
5901	36269	A	5947	287	544	
5902	36270	A	5948	831	4555	
5903	36271	C	5949	108	434	
5904	36272	C	5950	145	402	
5905	36273	A	5951	3	1104	GSRPGGHTLQSHRGRHAQGLR SPLLAPVCLGCGTWGQRRFLW SLKI*RLLCWF/CRRLQINCKNK PAIPRGPT/GPSEKSGLLLQDQG DTTNTTEENSKSLENIFGRVIKE NFQSLVRDLDIQYKKHKEHPG NSSQKDHHLGTLSSGYPKLRQR KES*ELSDRSTRKISQS/YNLYTP NTGAPRFIKQLLTDLRNEIDSNT IIVGYFSTPLTALDRSSRQKVND ETVDLNYTLEQMDLTEIYRTFH PTTTEYTFYSTVHGTFISKIDHMI CHKMSLNEFKKTEIISSTLSDHS GIKLEINSKMNLQNHANTWKL NNLLLNEHWVKNEIKMEIEKFF KLNDSDNTTYQNLWDMAKAV LRGKFIALNTYIKKMM
5906	36274	B	5952	1	2367	
5907	36275	A	5953	21	132	WREGARQCQEDPAEFLSD*DW ADPGPPHNAPGQNW
5908	36276	A	5954	1	1461	

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5909	36277	A	5955	31	802	SAWWNSRELLDPQSRSRSGFCF *EYPPTSGTEQESVSGNRALCSS LRMNGDQNSDVYAQEKQDFV QHFSQIVRVLTEDEMGHPEIGD AIARLKEVLEYNAIGGKYNRGL TVVVAFRELVPRKQDADSLQ RAWTVGWCVELLQAFFLVAD DIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLLKLY CREQPYYLNLIELFLQSSYQIEI GADPGPPHSPPRAMWILSDSLK RGTNLLSSTRQLSTPSTFL
5910	36278	A	5956	1	532	RLNEAEQKYKDIQDKLQIIEET NARAPECMALKADVVAKKRA YNEAEVLYNRSLNEYKALKKD DEQLCKRIEELKK/RVLTN/RLE PERLERQKKISWLKERVKAFQN QENSVNQEIEQFQQALEKDKEE HGKIKREKLDVKHALSYNQRL LKEKDSKTDRLKRFGNVPAL LEAIDD
5911	36279	A	5957	121	475	
5912	36280	A	5958	131	2891	
5913	36281	A	5959	131	3101	
5914	36282	A	5960	44	292	CQDYRWLLASSVLCWLY*KTQ QSDTEDLLCSAPTGPPEEDD GKS*PEKCRQMT*KKWSINCKC FFASSHNTTLSIGLFLR
5915	36283	B	5961	26	239	
5916	36284	A	5962	131	3121	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
5917	36285	A	5963	1	1185	
5918	36286	A	5964	495	636	PSVVLDINVSFNHWSAIFLTME\ PFCHRVRSHAMESR*GSVLP*N KPQ
5919	36287	A	5965	2	376	

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5920	36288	A	5966	3	688	GTSAGDGC PHPHTVLWPPDIMP PKKDVPVKKPAGPSISKPAAKP AAAGAPPAKTKAEPVQAPQ KTQEPPVDLSKVVEFNKDQLE EFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLG NPKSDEMNVKVLDFEHFLPML QTVAKNKDQGTIEDYVEGLRV FDKEGNGTVMGAIEIRHVLVTL GEKMTTEEVEMLVAGHEDSNG CINYEELVRMVLNG
5921	36289	A	5967	54	540	AVYMCDLTENQTADLIPSTNEF KEA\FQLFDRGTGDKILYSQCG DVMRALGQNPTNAEVLKVLGN PKSDEMNVKVLDFEHFLP\MLQ TVAKNKDQGTIEDYVEGLRVF DKEGNGTVMGAIEIRHVLVTLG\ EKMTEEDVHMLVAGHEDSNG CINYEAFVRHILSG
5922	36290	A	5968	1	405	
5923	36291	A	5969	93	506	
5924	36292	B	5970	43	615	
5925	36293	A	5971	2	598	TRTSLHAALFSWDPVGTSLTFI SHLEVKKGMLVGIVGKVGCGK SLLAAIAGELHRWEQVQCGG HTLH*APEQMLRGHVAVRGLS KGFGLATQEPWIFATIRDNIF GKTFDAQLYKEVLEACALNDD LSILPAGDQTEVGEKGVTLSSG QRARIALARAVYQEKELYLLD DPLAAVDADVANPPACTGCNP
5926	36294	B	5972	137	371	
5927	36295	A	5973	1	1398	
5928	36296	A	5974	1	915	
5929	36297	A	5975	40	564	
5930	36298	A	5976	62	280	
5931	36299	A	5977	17	744	
5932	36300	A	5978	1	537	
5933	36301	A	5979	242	576	AANSLYKGSNSAALIILVGP*IS CLTHPVYMK*APS*TICLLYSM VILKALFFPQNINFILPVKSRHS
5934	36302	A	5980	924	3473	
5935	36303	A	5981	1	604	
5936	36304	A	5982	288	732	RNCIANYDFLILPTSF*WCSFFV LLFLFLSLSLSSLKLHSDLDKGE GTAKYTLSGDGAGPVFTIDEIT GD\HAIRSL\DREEKPFYTLR\A Q\AVDIETRKPLEPESEF\IKVQ DI\NDNEPKFWGWDLMVATGP QKWSPVG*VGQIKIL
5937	36305	A	5983	1	1510	

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5938	36306	A	5984	1	603	
5939	36307	A	5985	250	505	GFSPTWQ*MNTHPSLMCFSPSR TTGSAAAN*RGQQKSGVPFWS* SHVKGKDQIPVPICPCTTAPVT MESTCIC*PTHVSCKTLMV
5940	36308	A	5986	3	131	RVLVPDIRGAI*AVPKSPSIKSY ALPRALFLLPPYPDDLGI
5941	36309	A	5987	1	913	
5942	36310	A	5988	5	177	
5943	36311	A	5989	3	383	
5944	36312	A	5990	1	1323	
5945	36313	A	5991	342	594	
5946	36314	A	5992	1	321	
5947	36315	A	5993	3	601	
5948	36316	A	5994	1	1023	
5949	36317	A	5995	1	606	
5950	36318	A	5996	1	1536	
5951	36319	A	5997	2	1394	
5952	36320	A	5998	371	1045	
5953	36321	A	5999	3	360	
5954	36322	A	6000	1	636	
5955	36323	C	6001	1	861	
5956	36324	A	6002	1	711	



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5957	36325	A	6003	18	2446	AGSPPRADAAAGLWERGHLLS AAVAAMGKRDRADRDKKKSR KRHYEDEEDDEEDAPGNDPQE AVPSAAGKQVDESGTKVDEYG AKDYRLQMPLKDDHTSRPLWV APDGHIFLEAFSPVYKYAQDFL VAIAEPVCRPTHVHEYKLTAYS LYAAVSVGLQTS DITEYLRKLS KTGVDPGIMQFIKLCTVSYGKV KLV LKHNR YFVESCHPDVIQHL LQDPVIRECRLRNSEGEATELIT ETFTSKSAISKTAESSGGPSTSR VTD PQGKSDIPMDLDFDFYEQM DKDEEEEEETQTVSFEVKQEMI EELQKRCIHLEYPLLA EYDFRN DSVNP\ DINIDLKPTAVLRPYQE KSLR\KMFGNGRARS GVIVLPC GAGKSLVGVTAACTVRKRCLV LGNSAVSV EQWKAQFKMWSTI DDSQICRFTSDAKDKPIGCSVAI STYSMLGHTTKRSWEAERVME WLKTQEWGLMILDEVHTIPAK MFRRVLTIVQAHCKLGLTATLV REDDKIVDLNFLIGPKLYEANW MELQNNGYIAKVQCAEVWCP MSPEFYREYVAIKTKKRILLYT MNP NKFRACQFLIKFHERRNDK IIVFADNVFALKEYAIRLNKPYI YGPTSQGERMQILQNFKHNPKI NTIFISKVGDTSFDLPEANVLIQI SSHGGSRRQEAQRLGRVLRRAK KGMVAEEYN AFFYSLVSQDTQ
5958	36326	A	6004	1	933	
5959	36327	A	6005	1	879	
5960	36328	A	6006	1	727	
5961	36329	A	6007	1	1509	
5962	36330	A	6008	1	1698	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5963	36331	A	6009	2465	2751	VPTSSAPMPWPSRQWERSST MTVISSSQLMALGP*RTAQVLA AAPA*LGASSAARGIDPQAGKT QK\ETDIATMQLCANKLDDKDF FGKSDPFLVFYRSNEDGTFTICH KTEVVKNTLNPVWQPFSPVRA LCNGDYDRTVKIDVYDWRD GSHDFIGFTTSYRELSKAQNO FTVYEVLPNPRKKCKKKKYVNS GTVTLLSFSVDSEFTFVDYIKGG TQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLS AYAMALKAVGEIIQDYDSDKL FPAYGFGAKLPPEGRISHQFPLN NNDEDPNCAGIEGVLESYFQSL RTVQLYGPTYFAPVINQVASLP
5964	36332	A	6010	1	1059	
5965	36333	A	6011	255	405	
5966	36334	A	6012	251	1199	
5967	36335	A	6013	1	1791	
5968	36336	A	6014	335	984	
5969	36337	A	6015	1	127	LPLRLSYEIYLYFTF*KPEHNKS HFLESHLIRNTRSALNTRK
5970	36338	A	6016	1	774	

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5971	36339	A	6017	186	2699	PRGAKPAVPAGPERPGPGPGPC SPRPMVLPTCPMAEFALPRHSA VMERLRRRIELCRRHHSTCEAR YEA VSPERLELERQHTFALHQR CIQAKAKRAGKHRQPPAATAP APAAPAPRLDAADGPEHGRPA THLHDTVKRNLDSATSPQNGD QQNGYGDLPFGHKKTRREAPL GVAISSNGLPPASPLGQSDKPSG ADALQSSGKHSGLDSLNNKKR LADSSLHLNGGSNPSEFPLSLN KELKQEPVEDLPCMITGTVGSIS QSNLMPDLNLNEQEWKELIEEL NRSVPDEDMKDLFNEDFEEKK DPSSGSATQTPLAQDINIKTEF SPAAFEQEQLGSPQVRAGSAGQ TFLGPSSAPVSTDSPSLGGSQTL FHTSGQPRADNPSPNLMPASAQ AQNAQRALAGVVLPSQGPGGA SELSSAHQLQQIAAKQKREQML QNPQQATPAPAGQMSTWQQT GPSHSSLDVPYPMEKPASPSSY KQDFTNSKL/PHDA*CE*EFPSA RRPLPPAQCEPAESPATE*LES ELRE/YTRGLCWIRQYKTPFSL QSGLWARQPGVWPEQASPDGL SSPAAVPYKSRAELPVSEAKA RKYAFPITGSTWPGAEPFQCPC ASPGYQCWDPAACRVRGQLPQ QLPLSQPATGRCNEAASVAFG PTETKGAAAKAFTATAVPSEAT APSRGTGEATVSAPSDPPTTPVP
5972	36340	A	6018	1	1062	
5973	36341	A	6019	3	566	ASRPPVTLRLVVPASQCGSLIG KGGCKIKEIRESTGAQVQVAGD MLPNSTERAITIAGIPQSIIECVK QICVVMLESPPKGV TIPYRPKPS SSPVIFAGGQAYTIQGQYAIQP DLTKLHQLAMQQCHFPMTHTG \NTGFQWALESSFPEV\KGYW\ AGLDASAQTTSHELTIPNDLIGC IIGRQGAKIN
5974	36342	A	6020	2	531	TLRSSWQVVRTGTAQAATVRG FPPHPPRPASASTLTLEGPPLEAY TIQGQYAIQPDLTKLHQLAM QQSHFPMH/GDGIHSDYSAG\LD ASA\QTTSHELTISKRILIGLA*S GRSRAPKINGGSRQMSGAG\KI ANPV\IEGSTD*GRFTITGSAASIS LAQYLINVRLSSETGGMGSS

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5975	36343	A	6021	181	1369	PLKVQLPRTLDDMDTGVEGG NVTLTIRLLMHGKEVGSII\GKK GESVKKMREESGARII\NISEGNC PERI\TLAGTH*LPSFKAFAMII DKLGRRDISSSM\TNSTAAQLGP PVTLLKLG\APAS\QCGSLIGKGG CKIKEIRESTGAQVQVAGDMLP N\STEAGHHYLLGIPQSI\ECV\K QILRGSCWETLFPSSPPKGVTIP\ YRPK\PSSSPV\IFVAGGPGQVPA QAATVRAFPTPPRPGSTLTWE GPPLEAYTIQGQYAIPQPDLT L\HQLIAMQQSHFPMTHGNTGF SG\IESSFPEVKGYWAGLDAS AQTTSHELTII\NGFDWAGIIGA FKGAKIN\EIRQMSGAIQIANP VE\GSTDQRQVTITGSAASISLAQ YLINVRLSSETG\GMGNN
5976	36344	A	6022	1	690	
5977	36345	A	6023	1	399	
5978	36346	A	6024	3	397	
5979	36347	A	6025	3	249	
5980	36348	A	6026	177	477	
5981	36349	A	6027	49	451	
5982	36350	A	6028	1	1305	
5983	36351	A	6029	1	568	
5984	36352	A	6030	207	1053	PLTFGPARWRETPPSLYKEFS LFGSFFLSSAWGAHNLRALFLL LPSSRIQTPWVFGDLKSPAGL QVLNDYLADKSYIEGYVPSQA\ DVAVFVAVSSPPADLCHALR WYNHIKSYEK\EKASLPGVKKA LGKYGPAVDVETTTGSGATDSK DDDDIDLFGSDDEE\ESEKPKRL REERLAQYESKKAKKPG\LV KSSILLLVKP\WD\DETDMAKLE ECVRSIQADGLVWGSSKL\VPV GYGIKKLQICVVEDDKVGT MLEEQITAFEDYVQSMDDVAAF
5985	36353	A	6031	1	211	
5986	36354	A	6032	27	241	EVFGSWWQVPHEWLGSVLVV MSEFLFH*LM*ELVLKRV*CLS HLSLAPFLAM*YACSSSSPSTMI VSFFFF
5987	36355	A	6033	1	588	

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5988	36356	A	6034	279	1333	LIFCGCWLFASLTVMEAAHFFE GTEKLLLEVWFSRQQPDANQGS GDLRTIPRSEWDILLKDVQCSII SVTKTDKQEAYVLSESSMFVSK RRFILKTCGTTLLLKALVPLLKL ARDYSGFDSIQSFFYSRKNFMK PSHQGYPHRNFEIEFLNAIFP NGAGYCMGRMNSDCWYLYTL DFPEER\VISQPDQTLILMSELD PAVMDQF*HEDG\VTAKDVTRE SGIRDLIPGSVIDATMF\NPCGYS \MNGMKSLDGTWY\HITPEPEF SYVSFETNLSQTSYDDLIRKVV EVFKPGKFVTTLFVNQSSKCR RLGLPQK\IEGFKRLDCQEGWF KDSNFFFTSFAKKQQQQQS
5989	36357	A	6035	1	687	
5990	36358	A	6036	1	894	
5991	36359	B	6037	1	1458	
5992	36360	A	6038	1	1062	
5993	36361	A	6039	1	1218	
5994	36362	A	6040	277	3508	RSGRIAWAQEMDAAGRGCHLL PLPAARGPARAPAAAAAAS PPGPCSGAACAPSAAAGAGAM NPSSSAGEEKGATGGSSSSGSG AGSCCLGAEGGADPRGAGSAA AAGAAALDEPAAAGQKEKDEA LEEKLRNLTRFKQVSYRKAISR AGLQHLAPAHPLSLPVANGPA KEPRATLDWSENAVNGEHLWL ETNVSG\DLCYLGEENCQVRFA KSALRRKCAVCKIVV/HTTACIE ELEKINFRCKPTFREG\GS
5995	36363	A	6041	45	155	
5996	36364	A	6042	1	979	
5997	36365	A	6043	3	1042	
5998	36366	A	6044	2	401	
5999	36367	A	6045	1	5772	
6000	36368	A	6046	16	5678	VTSGRLLFYFRSMGPGCDLLLR TAATITAAAIMSDTDSDEDSAG GGPFSLAGFLFGNINGAGQLEG ESVLDDECKKHLAAGLGLG SLITELTANEELTGTGALVND EGWVRSTEDAVDYSINEVAE DESRRYQQTMGSLQPLCHSDY DEDDYDADCEDIDCKLMPPPPP PPGPMKKDKDQDSITGEKVDFS SSSDSESEMGPQEATQAESEDG KLTLPLAGIMQHDAKLLPSVT ELFPEFRPGKVLRFLR
6001	36369	A	6047	1	354	

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6002	36370	A	6048	1	666	
6003	36371	A	6049	129	456	TYPVVGESSRRPERSRGVPGPD AAAESHFRPGRISNPLHRAGEQ GHARAEGSGVFRPHRGRGLRL LFVQAPDQVDAPVHG*VAPPAP GARDAQTCRSHECPRTPLDEV
6004	36372	A	6050	1	1095	
6005	36373	A	6051	171	619	
6006	36374	A	6052	1	621	
6007	36375	B	6053	1	181	
6008	36376	A	6054	1	905	
6009	36377	A	6055	1	855	
6010	36378	A	6056	2	244	
6011	36379	A	6057	3	829	LTDCLKDVDLIPPFNRMLLEVT FGKLYAWTVQNILNVLM DASA KFKELGIQVPPLQTITSENPLGP SLGSIPQARFLLMMLSM LTLQH SANNLDLLLNSGTLALTQTALR LIVLPDVELLI*DHLL*MQTSIV* LPVLALLLAQHRSFGPSCDNVE EDMNASAQGASATVLEATRKE TAPVHLPVSGPELAATMKIGTR VMRGVDWKWGD/QEAEQTER NIHPTTMMFTSTINLLQTLCLPA RVHAEIMQSEATKTL CGLLQIL VESGTTDKTRME
6012	36380	A	6058	133	5421	IFVFGCPGSPRLQMVENRYTES FFTGQNCNRNEKVTLVRIADLE NHNNDGGFWTVIDGKVYDIKD FQTQSLTENSILAQFAGEDPVV ALEAALQFEDTRESMHAF CVG QYLEPDQEGVTIPDLGSLSSPLI DTERNLG LLLGLHASYLAMSTP LSPVEIECAKWWQSSIFSGGLQT SQIHRYRYNEEKDEDHCSSPGGT PASKSRLCSHRRALGDHSQAFL QAIADNNIQDHNVKDFLCQIER YCRQCHLTT PIMF

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6013	36381	A	6059	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAKSQGCSR ARHQAARSMPLODQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQV NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCVGYLEVR LYALSDAEDGRG\TL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIPQARFLLMMLSLT LQHSANNLDLLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGPPLGLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAQAQPSAEDS DTEDDSASPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSQTVP
6014	36382	A	6060	1	7297	
6015	36383	A	6061	32	259	SLRVTPGGRNVSEKKDRKKTG R/PELERKSHTERLYLEEGSAE PA*VGRRAPESVNDRGGAIQRA QRGQPAPPLPR
6016	36384	A	6062	3	437	
6017	36385	A	6063	1	425	MTELPTLWKPLKNSPMFRVIAR AFCVTFILVSTHQEMLTITSEN LGPSLGSIPQARFLLMMLSLT LQHSANNLDLLLNSGTLALTQT ALRLIGGTPVELPAELAAPAFR AAAA/VDKNPRRRGQKVAVAK SGGDRGKKS

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6018	36386	A	6064	2	14566	RRGGRALRVRPETWEEAGEKM PSEFCLAAQARLDSKWLKTDI QLAFTRDGLCGLWNEMVKDG EIVYTGTESTQNGELPPRKDDS VEPSGTTKKEDLNDKEKKDEEET PAPIYRAKSILDSWVWGKQPDV NELKECLSVLVKEQQALAVQS ATTLSALRLKQRLVILERYFIA LNRTVFQENVKVKWKSSGISLP PVDKKSSRPAGKGVGLARVG SRAALSFAFAFLRRWRSGEDA DLCSELLQESLDALRAL
6019	36387	B	6065	75	581	
6020	36388	A	6066	517	5495	ESFFTGQNCRNNEKVTFVRIAD LENHNNDGGFWTVIDGKVYDI KDFQTQSLTENSILAQFAGEDP VVALEAALQFEDTRESMHAF VGQYLEPDQEGVTIPDLGSLSSP LIDTERNLGLLLGLHASYLAM TPLSPVEIECAKWLQSSIFSGGL QTSQIHYSYEEKDEDHCSSPG GTPASKSRLCSHRRALGDHSQA FLQAIADNNIQDHNVKDFLCQI ERYCRQCHLTTPIMFPPEHPVEE VGRLLLCCLLK
6021	36389	A	6067	1	1851	
6022	36390	A	6068	53	423	YHLTLIIHGTVSATRPGHCSP GKLPSWVPISLQCTPSSPECRSV *RQL*HGHMHELLYIITKADSVI TASCLISRSEWWDGGTVSLV QRFVDYGGSSQCQRPHRTGCASS SAPQRASSVAPG
6023	36391	A	6069	1	49	EWSGTRTWWRPWSCRT*CRT
6024	36392	A	6070	1	726	
6025	36393	A	6071	368	485	
6026	36394	A	6073	1	414	
6027	36395	A	6074	3	535	RRREFPAKERESASMSSPEE*P/ DMAKGAPPSQPPNSVPAD/CS RSVRLSSSNFEESLRPTEDDEGQ EGQDSMSRAKANWLRANFKV RMQLQEARGEEMSKSLWFKG GPGGGLIIDSMPDIRKRKPIPLV SDLAMSLVQSRKAITSALASS TLNNEELKNHVKKTLQALIYP ISC
6028	36396	A	6075	1	222	
6029	36397	A	6076	2	284	NGIPDFSNTTLRLGLQMPGARG PCCGSQRHINLLMGTGVFLVK MKA/NEFFFLDSETRLCIAPEG WREQPQKTSMTFTLFLRIKFF VSHYGLL



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6030	36398	A	6077	91	749	
6031	36399	C	6078	1	380	
6032	36400	A	6079	1	877	MPRPDLAPALLVAVLVLLYLL VSAAAPAPSSDSTPENVCVET TTNFIWELSSPHNTSAVLLVVF HKGPSPKFEVKKKNANGLGFS FVQMEKESCSHLKSDLVRIKRL FPGHPAEENGAIAAGDIILAVN GSPRKASSSRCRGSWAMQLSV QAGPSFASYYPAAVEVLHLLRG APQEVTLLLCRPPPGALPELEQE WQGQKYKCAWAIVNEAEVEE VVEVAGTVEFFGDQGA*CHHP ACSGKPLGWHGGLSRKCPRLFF RGATRVGTGAQGLKEVKQQSFR SNMMWLGLRL
6033	36401	A	6080	1	1683	
6034	36402	B	6081	66	1214	
6035	36403	A	6082	1	5694	
6036	36404	A	6083	3	483	SSLTSSMEDPAAPGTGGPPANG NGNIGGGKKGQAAPKGREAFR SQRRESEGSVDCPTLEFEYGDA DGHAAELSELYSYTENLEFTNN RRCFEEDFKTQVQGKEWLELE EDAQKAYIMGLLDRLEVVSRE RRLKAARAVLYLAQGTGECED SEVDVLHWSRY
6037	36405	A	6084	1	2646	
6038	36406	A	6085	115	1289	FSPLEPRLCSLGGWGALQAGEP CQPSRAGCGREGATMGCTLSA EERAALERSKAIEKNLKEDGIS AAKDVKLLLLGAGESGKSTIVK QMKIIHEDGFSGEDVKQYKPV VYSNTIQSLAAIVRAMDTLGIE YGDKERKADAKMVCDVVSRM EDTEPFSAELLSAMMRLWGDS GIQECFNRSREYQLNDSAKYYL DSLDRIGAADYQPTAQDILRTR VKTTGIVETHFTFKNLHFRFLD VGGQRSEKRWIHCDEFVTAII FCVALSGYDQVLHEDETTNRM HESLMLFDSICNNKFFIDTSILF LNKKDLFGKIKKSPLTICFPEY TGPNTYEDAAAYIQAQFESKNR SPNKEIYCHMTCATDTNNIQVV FDAVTDIIANNLRGCGLY
6039	36407	A	6086	1	1053	

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6040	36408	A	6087	2	377	IYDGFDFGFAKGQIKEIGWTDVG GWTGQGGGILGTRVLP GK/Y MEEIATQMRTHSINALLIIGGFE AYLGLLELSVFVTLKLFYQHFM HVLLTLIPNRRVPICPTSPSACC LWSVSHAFCAYEQN
6041	36409	A	6088	1	591	
6042	36410	A	6089	1	2391	PGRAAPLGLLAMDDSRAPK GSLRKFLHLSGAGKAIGVLTS GGDAQGMNAAVRAVVRMGYI VGAKVYFIYEGYQGMVDGGSN IAEADWESVSSILQVGGTIIGSA RCQAFRTREGRLKAACNLLQR GITNLCVIGDGS LTGANLFRK EWSGLLEELARNQIDKEAVQ KYAYLNVVGMVGSIDNDFCGT DMTIGTDSALHRIIEVVDAIMTT AQSHQRTFVLEVMGRHCGYLA LVSAACGADWVFLPESPPEEG WEEQMCVKLSENRRKKRLNII IVAEGAIDTQNK PITSEKIKELV VTQLGYDTRVTILGHVQRGGTP SAFDRILASRMGVEAVIALLEA TPDTPACVVSLNGNHAVRLPL MECVQMTQDVQKAMDERRFQ DAVRLRGRSFAGNLNTYKRLAI KLPDDQIPKTCNVAVINVGAP AAGMNAAVRSAVRVGIADGH RMLAIYDGFDFGFAKGQIKEIGW TDVGGWTGQGGGILGTRVLP GKYLEE IATQMRTHSINALLIIG GF EAYLGLLELSAAREKHEEFC VPMVMVPATVSNNVPGSDFSIG ADTALNTITDTCDRJKQSASGT KRRVFIIETMGGYCGYLANMG GLAAGADAAYIFEFPDIRDLQ SNVEHLTEKMKT TIQRGLVLRN ESCSENYTTDFIYQLYSEEGKG VFDCRKNVLGHMQQGGAPSPF
6043	36411	A	6090	1	459	

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6044	36412	A	6091	1930	5781	RAKSPANIIMTGSNSHITILTLN VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6045	36413	A	6092	1	3654	
6046	36414	A	6093	1	5127	
6047	36415	A	6094	1	3663	
6048	36416	A	6095	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
6049	36417	A	6096	1	5073	
6050	36418	A	6097	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLII PKSTEYTTFFSAPHHTYSKIDHIV GSKALLSKWKRTETIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
6051	36419	A	6098	1	3235	

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6052	36420	A	6099	1	3070	MATLIPLL FHKHPHLTQRYQFN VRGGCPTSTSAIATLDPRTAVFP LMSVFQTSAPWPFWGFTHQTP VPQPLKV KIHSSADTAADIQAN RVWSGPPANSKRPAEEGKLT NRKDIHTKNPSVRHHHQRPKV DKTTKTGKKQRRKTGNSKKQS ACPPPKERSSTATEQSWTEND FDKLREGFRRSNYSKLQDEIQT KGKEVENLEKSLDECITRITNTE KGLKKLENYVKNEETSGANAI NWKKGINKIDRPLARL
6053	36421	A	6100	1	3297	
6054	36422	A	6101	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEEVESLNRPIITGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQQPFMLKTL NKLIGIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASRKIKYLGILTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSLAIEMQI KTTMRYHLTPVRMAIIKKSGNN
6055	36423	A	6102	1	3417	

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6056	36424	A	6103	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLNRNCIDDLKPPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYP IQDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGP TREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRLDLK
6057	36425	A	6104	1	4371	
6058	36426	A	6105	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKL FQSIEKE GILPNSFYEASIILIPKGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKA FDKIQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPKN ILITL QLLLVLPELSTLIPLWLPALAGQ
6059	36427	A	6106	1	4449	

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6060	36428	A	6107	824	3693	AWKGTDRSTRQKVNKDTQELNSALHQADLIDIYRTLHPKSTEYT/FFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRINKFTQSRSTTWKLNLLLNNDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIDTLTSQLEKEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFFERITKSDRPLARLIKKREKNQIDTIKNDKGDIT
6061	36429	A	6108	1	3297	
6062	36430	B	6109	112	3300	
6063	36431	A	6110	3	3316	
6064	36432	A	6111	1	3457	
6065	36433	A	6112	1	3170	MVKGSIQQEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNKDTQELNSALHQADLIDIYRTLHPKSTEYFFSAPHHTYSKIDHILGSKALLSKCKRIEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLLNNDYWVHNEMKTEIKMFFETNENKDDTYQNLWDAFKAVCRGKFIALNAYKRKEERSKIDTLTSQLEKEKQEQRHSKPSRRQEITKMRAELKEIETQ
6066	36434	B	6113	1	4753	
6067	36435	B	6114	1	3384	
6068	36436	A	6115	1	3345	
6069	36437	A	6116	1	3780	
6070	36438	A	6117	1	3720	
6071	36439	A	6118	1	3894	
6072	36440	A	6119	1	3335	MVKGSIQQEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNKDTQELNSALHQADLIDIYRTLHPKSTEYFFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLLNNDYWVHNEMKAEIKMFFETNENKDDTYQNLWDAFKAVCRGKFIALNVYKRKQERSKIDTLTSQLEKEKQEQTHSKASRRQEITKIRAELEIETQ
6073	36441	A	6120	1	3780	
6074	36442	A	6121	1	3852	
6075	36443	A	6122	1	3345	
6076	36444	B	6123	1	6136	
6077	36445	B	6124	1	3924	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6078	36446	B	6125	295	4185	
6079	36447	A	6126	1	405	
6080	36448	A	6127	1	1059	
6081	36449	A	6128	2	518	EKATCDENDSVSNIA TEIKEGQ QSV\HVSPQKQSAWKVIFKKKV SLLNIATRITGGGKSGTVSSQKQ PPSKATSDKTD SALNIA TEIKDG LQCGTVSSQKQPALKATTDEED SVSNIA TEIKDGEKSGTVSSQKQ PALKATTDEKDSVSNIA TEIKD GEKSVTVSSQKQPASK
6082	36450	A	6129	1	843	
6083	36451	A	6130	1	432	
6084	36452	A	6131	2	835	CGSAQAAAAAAAAAEEATEKIPAL RP/ASAVGAAGALAVLRDPRA WREAGSKS/PETPFS*CQGA/HG GGQFCPSGTA FPGMKVM MR KRKKKGQCLPGICRSLKRRKSP RSPGM/IGYSTLSIPPEMLASYQ SYSSTFHSLEEQQVCMA/G*HR QMPGADKPVRACQRVLAGVW AGFTMRHQSRLY*ECSICGVIFR HRCVAHLLGRAIGAGLFVITPA GERGMCCKA IKLGNARVFPVT TL*NDGQCQACMHAG/TTLED P GKNYISSPSSSSSSSSSPSPRVPS
6085	36453	C	6133	278	446	
6086	36454	A	6134	1	1152	
6087	36455	A	6135	1	639	
6088	36456	A	6136	12	1436	
6089	36457	A	6137	367	1056	
6090	36458	A	6139	1	4263	
6091	36459	A	6140	1	1311	
6092	36460	A	6141	1093	1358	MQKKPLTKFNNPSC*KLSIN*V LMGRISK*VTTTATTTTITTTTT TTTTTTTTTATTTTTTTTTTTT TTTTTTMGPTLPLIPIGLGS
6093	36461	A	6142	1	699	
6094	36462	A	6143	1	489	

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6095	36463	A	6144	5	916	ALGGTPMLGKLAMLLWVQQA LLALLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSLTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPFHGHGRGLLPAPQQ WREGLFQNYTPPGLLGLPDHFR
6096	36464	A	6145	5	756	
6097	36465	A	6146	1	471	
6098	36466	A	6147	184	1097	ALGGTPMLGKLAMLLWVQQA LLALLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSLTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPFHGHGRGLLPAPQQ WREGLFQDYTPPGLLGLPDHFR
6099	36467	A	6148	3	672	
6100	36468	A	6149	3	398	LRKIKIDLGKFSDNPDGYIDVLQ GLRQSFDLTWRDIMLLLDQSLT PNEKSAAKTAAREFGDLWV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYYAPIQQA V
6101	36469	A	6150	1	420	



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6102	36470	A	6151	1	878	TLLPPRPGVGS DYPNIPGCPMW GNKDPGEGTLER GKVEDASQR TSRTLKETS GKA EHRKKQDGK CSPQGKNAL KMYSGEFDPVRV CVPFSLSDLKQLKIDLGRFSDNP DGYIDVLQGLGQSFDLTWRDI MLLLDQTLTPNERNATITAARE FGDLWCLSQVNDRMTTEERER FPTGQQAVPSADPH* DTESEHG DWCCRHL L TCVLEGLR KTRKK AVNFSVMSTVTQGKEENPTAFL ERLREALRKHTSLSPDSIEGQLI LKIKFITRSAADIRKQTSKVHLR PGAKLKTPY
6103	36471	A	6152	1	417	
6104	36472	A	6153	1	415	
6105	36473	A	6154	1	234	
6106	36474	A	6155	1	335	TCPIVPG/QEMIIEISKGRSGLGL SIV*GKDTPLNAI VIHEVYEEGA AAVDGRLWAGDQILEVNGVDL RNSSHEEAIT ALMQTPQKVRLV VYRDEAHYRDEENLEIFPVDLQ
6107	36475	A	6156	109	4687	
6108	36476	A	6157	109	4991	
6109	36477	A	6158	3	862	
6110	36478	A	6159	1	1857	
6111	36479	A	6160	3	100	
6112	36480	A	6161	1	537	
6113	36481	A	6162	125	1184	
6114	36482	A	6163	875	1506	LSIYLV TQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRD AVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQQH SIIKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLD TDSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6115	36483	A	6164	1	1566	
6116	36484	A	6165	1	1098	
6117	36485	A	6166	1	538	
6118	36486	A	6167	410	625	LTLVPFSFSVVL TPLPKGNTIRY *TGIL*GWNLSWKGT LGFSVTA QPSSGTPRTALGSRTTKPLL VSL LQV

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6119	36487	A	6168	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNDQT FQGLLDTGSELTLPKGRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTDGSW RMTVDYL
6120	36488	A	6169	203	850	DVEHVGKMRRRWRRRVVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VV/I/SPVPECIIGIDILSSWQ/NSH IGSLTVHLSSDPKGCHEWGP QEKALQEVQAAVQAALILEPY DPAGPVVLEVSLADRDAVWSL WQAPIGESQQRPLGFWSKALPS
6121	36489	A	6170	1	864	
6122	36490	A	6171	1	205	VPDFPAKPIQGPHFNSRYL/REA VHGEAVHAPFIAGQPLT**ELM SIFPQFQFFLYRRLDSHSGQSWQ I
6123	36491	A	6172	1	3039	
6124	36492	A	6173	1	1364	MIISIDAEKAFDKIQQPFMLKTL SKLEETASPSVVAITYTPQPM PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPELIIGIDILSSWQNP HIGSL NGRGYINSLALCHNLIRDLDR FLLPQDITLVHYIDHIMRLDSVK DKWLHLAPPTTKKEAQCLVGL/ FGFWRQHISLWRQPLACYWAL VETEHLTMGHQVTMQPEL PIM NWLLSDPSSYKPAPMASWGVP YGQLTEEEKTRAWFTDGSARY TETTRKWTAVAIQPLSRTSLKD SNEGKSSHQAKNGITVLAGVI DPDYQDEISL/LTPQWRCHPGSS VWRASSLGISHPP
6125	36493	A	6174	114	1996	

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6126	36494	A	6175	1	475	MGRNQNRKAENSKNWNASSPP KEHNSSPAREQNWREDEFNELT EVGFRRSVITNFSDLKEHVLTH CKEAKILEKRLDKWLTKITSVE KS/CK*PDG/D*KPQYENFMKHT QASIADLIKRRKKRYQ*LKIKLM K*SKKTR*EKKKYKLPSENTTN TSMQIY
6127	36495	A	6176	179	393	NKRGYKQMEEHSMMLMDKKNQ YYENGHTAQGN*AGEGNGKGY IRKTGSQIVPLCR*HDCISRKPD CLSPKSP
6128	36496	A	6177	1	710	MARELRDECTSFSSQFHQLEER VSVIEDQMNMKQEEKFREKGI KRSEQLQEIWDYMERPNLCLI GVPESDGENGIKLEDTLQDIIQK DFPNLGRQANIQEIQRMPQR YSSRRATPRHIIVRFTKEIQTIR EYYKHLANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIEAIINSLPTKKSPRDPGFTA YQRYKEELVPFLKLQSFIEKE GILPNSFYEASIIIPKLGRDTTK KENFRPISLMNIDAKILNKILAN QMQQNIKNLIRHDQAGFIPGMQ CWFNIRKSINVIQHINRTKDN HMIISIDAEKAFYKIQPFILKTL NKLENKIPRNPTYKGCEGPLFK ENYKLMLKEIKEDTSKWKNIP WSWIGRINIVKMAILPKVIYRLS APIKLPIMFFTELEKTTLKFIWN QKRACIAKSILSQKNKAGGIML PDFKLYYKATVTKAAWYWYQ NRDIDQWNRTEPSETIPHIYSHL IFDKPDKNKKWGKDFLKNWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMCKTPKAM VTKAKIDKWDLIKLSFCTAKE TTVRVNRQPTEWEKIFAIYSSD KRLISRIYKELK*PCSIV*SQVA *CLQLCSFGLGLTWQCRLFFGSI
6129	36497	A	6178	464	724	IGEVLLDNILQRVFQLGSILPITF RYTNQT*IWSWTLFWLVSY
6130	36498	A	6179	1	2022	
6131	36499	A	6180	1	882	
6132	36500	C	6181	1	1935	
6133	36501	A	6182	1	672	
6134	36502	B	6183	140	2195	
6135	36503	A	6184	26	354	

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6136	36504	A	6185	86	747	SLEDAMSLKDDDSGDHDQNEE NSTQKDGEKEKTERDKNQSSS KRKA VVPGPAEHPLQYNYTFW YSRRTPGRPTSSQS YE QNIKQIG TFASVEQFWRFYSHMVRPGDL TGHSD FHLFKEGIKPMWE\DDA NKN G\GKWIIRL\RKGF GSR C\W ENLILAMLGEQFMVGEEICGG CGVCPAFQEDIIS\IWNKTASDQ ATTARIRDTL\RRVL\NLPANTI MEYKN
6137	36505	A	6186	23	127	
6138	36506	A	6187	2	419	
6139	36507	A	6188	1	714	
6140	36508	A	6189	19	373	AVFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFSSSSSSFFFFSFFL FFFFKLKELRLVI*PLNPEN*ESC PLFSPVNLDMPT*TFKDKRWKV NWARSTSRQQLLESARTKSWA EREGGTRWRAW
6141	36509	A	6190	227	420	KNFLPNC SAKELFFFFFFFFFFFFL LLLLLLLYFKF/MI*WFKHLAF PLLAFILSPTAL*RGVFHH
6142	36510	A	6191	400	582	
6143	36511	A	6192	1202	1678	
6144	36512	A	6193	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
6145	36513	A	6194	110	377	QWISRQKPYKPEKRGDQYSTFL *EC*ILVPPLFWLVGFLPRDPLL V*WAYGCP*HFFLHFNLGESNN YVSWGCS
6146	36514	A	6195	1	381	
6147	36515	A	6196	1	759	
6148	36516	A	6197	1	609	
6149	36517	A	6198	2	1178	
6150	36518	B	6199	159	290	
6151	36519	A	6200	716	1001	SMPASTHLILVGSCSWKMVIVL PLVTHFLFTALTVPWNLPWVEL YWNM*TM*LRSMKESLMATIF TLPELKA\VLHEKLQ*LQSTEDL *HGLLGG
6152	36520	A	6201	5772	5971	TANIIMTGSNSHITILTNVNR NARIKRHRENCIKSQDPSVCCI *ETHLMCRD TYRLKIKGWSN
6153	36521	A	6202	1	974	
6154	36522	A	6203	1	600	

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6155	36523	A	6204	51	424	MAPKQDPKPKFQEGERVLCFH GPLLYEAKRVKVAIKD/ITREI/H SYITVVGIIKGMNGFRRAKYSN TWTPICRNSENFKKPKISKFVL*T EY*GEMPVD*FWTWNEQWRSC WLPCLYNDTSDLSAGV
6156	36524	A	6205	1	3827	MQKAIRLNDGHVAPLGLLARK DGTRKGYLSKRSSDNTKWQTK WFALLQNLLFYFESDSSSRPSG LYLLEGCVCDRAPSPKPALSAK EPLEKQHYFTVNFHENQKALE LRTEDAKDCDEWVAAIAHASY RTLATEHEALMQKYLHLLQIVE TEKTVAKQLRQQIEDGEIEIERL KAEITSLKDNRIQSTQTVAPN DEDSDIKKIKKVQSFLRGWLCR RKWKTIQDYIRSPHADSMRKR NQVVFSMLEAEAAY
6157	36525	A	6206	1	900	
6158	36526	C	6207	172	501	
6159	36527	A	6208	499	848	KIRVPAAVAGLSPPLGPWSLRS PSQPERCCPWRNSSWWTAPRTS IITAAKGVSPARLSSISCTTRGS WVKTPPTPRARMVIASSNLERP SALSRM*PTSQSMTRKRWRL WPSTTL
6160	36528	A	6209	3	495	SCAQTFPKLDTFLEHIKSHQEEL SYRCHLCGKDFPSLYDLGVHQ YSHSLLPQHSPKKDNA/CLQVF PCERYLRRHLPTHGSGGRFKCQ VCKKFFRREHYLKLHAHIHSGE KPYKCSVCESAFNRKDKLKRH MLIQYDEVVRQGLGMVPGTQKV LNKCFCHNVKKKK
6161	36529	A	6210	667	2142	
6162	36530	A	6211	1	396	
6163	36531	A	6212	213	446	
6164	36532	A	6213	101	580	VAGVGSLPRSMEDDAPVIYGLE FQARALTPQTAETDAIRFLVG TQSLKYDNQIHIIDFDDENNIIN KNVLLHQS/AGEIWHISASPADR GVLTTCYNRTSDSKVLTCAAV WRMPKELESGSHESPDDSSSTA QTL\ELLCHLDNTAHGNMACV VWEPMGDG
6165	36533	A	6214	1	933	

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6166	36534	A	6215	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG
6167	36535	A	6216	1	408	
6168	36536	A	6217	88	871	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETI\RTALA\MGAD RGHVEVPPAEAEERF/GVPLQV ARVLGQLAKK\EKVDLVLLGK QAI\ACTDCNQ\TGQMTAGFLD WPQGTFA\SQVTLEGDKLKVER EIDGGLET\RLKLPAVVTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
6169	36537	A	6218	1	1023	
6170	36538	A	6219	110	842	
6171	36539	A	6220	1	122	
6172	36540	A	6222	1	1257	MNDATAVQEGSQMYSWQKLT PTGPFIMQPEGMGRLFAINKMA EGPFPEHYEPIETPLGTNPLHPN VVSNPVVRLYEQDALRMGKKE QFPYVGTTYRLTEHFHTWTKH ALLNAIAQPEQFVEISETLAAAK GINNGDRVTVSSKRGFIRAVAV VTRRLKPLNVNGQQVETVGIPI HWGFEGVARKGYIANTLTPNV GDANSQTPEYKAFL/GQHREGV RN*LHHAAFSGA*LQCFQYAH NSRKNN
6173	36541	A	6223	737	941	WLRMMEHRILFPLWKRESKKA HYVQSSVLLCLGMLR*KYKGK KGKKERKKKDEKRGNGKKRI KIHSI
6174	36542	A	6224	1	1072	
6175	36543	A	6225	1	585	
6176	36544	A	6226	1	930	
6177	36545	A	6227	28	392	AGEVPLQLPPAAVCSACLQRP LWWNSSFFL*SCLHALFH*VDL QSLIAFLLLD*SS*YLCMLHEV LVLCFSAPSGHLCSSLS*LF*LAI HLTFFQGS*LPCIGLEHASLAQR SLLPTF
6178	36546	A	6228	1	271	SAIVTFVCFMKFSCCVFQLHQV FHVLFKLVILVSSSCNLFSTRFLA SLHWVTTCFSFSEEFVITHLLKP APVNSSNSFSVQFCSLAGKEL

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6179	36547	A	6229	1	1089	MGWRPRWLPYLYWGFQSDLC PHCKRKAQEEDSLAAQAASHP RLSANSKNNSWGWKQYSYALFK AMRHMLCIGYGRQAPAAVSDV WLTMLSMIVGATCYAMFIGH/ ATALIQVLDCSRRQYQEKVVLP REHPNIGSSQEGGTWHQTVGL QQTSDKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGK HYGKQSLTTSAANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSATTRDAELANGALGH ELDNDSPKKRGATQRSSEFNI TLKAYKRDVRSLLMLTRNEDV ADSLNSSKKRQNYQLPSIRSVT RCKKIGVCAKGIGCGGTHYLS VSILNTADRDRRKLGFTRTSMY
6180	36548	B	6230	1	1140	
6181	36549	A	6231	3	204	GSDYELGLW*PWLTSEATDLH GECYSS*SGASGVVRSSI.WARG LAGFRSEAADLRGRESVAVTN
6182	36550	A	6232	1	1296	
6183	36551	B	6233	1	1686	
6184	36552	A	6234	1	627	
6185	36553	A	6235	570	736	SATFGRSSRSGCSG\FPAASRRG RLPLSPPPWPAVARVYPCGMLD NKASAAHPPKKK
6186	36554	A	6236	1	103	
6187	36555	A	6237	699	887	GLQPPAPRETRPLY*TLAWNLI FLFVSPLDSCDLVRSVLTCLSP GNSPSFDMHRYQLPCVH
6188	36556	A	6238	2	803	
6189	36557	A	6239	2	1277	YKETYLIHLFHTFTGLSIAYFNF GNQLYHSLLCIVLQFLILRLMG RTITAVLTTFCFQMayLLAGYY YTATGNYDIKWTPHCVI.TLK LIGLAVDYFDGGKDQNSLSSEQ QKYAIRGVPSLLEVAGFSYFYG AFLVGPQFSMNHYMKLVQGEI IDIPGKIPNSIIPALKRSLGLFY VGYTLLSPHITEDYLLTEDYDN HPFWFRMYMLIWGKFVLYKY VTCWLVTGVCILTGLGFNGFE EKGKAKWDACANMKVWLFET NPRFTGTIASFNINTNAWVARYI FKRLKFLGNKELSQGLS\MLFLF LWHGLHSGYLVCFQMEFLIVIV ERQAARLIQESPTLSKLAAITVL QPFYYLVQQTIHWLFMGYSMT AFCLFTWDKWLKVYKSIYFLG HIFFLSLLFILPYIHKAMVPRKE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6190	36558	A	6240	56	324	
6191	36559	A	6241	68	487	
6192	36560	A	6242	52	457	
6193	36561	A	6243	263	787	SLEV*KWPGVACRLQL*P/MVP APKS*ESKSAGSLNTPSAICRDA SGRGLARPWLRKSKCLACHLV DTRSKTAGGLAPVPSAHLISVR EREPGLCAVLVSQLEFRVGVGL VGPTLGARREPCWPQAMGDLA PEPVAALRLISRRALPAFPWGR ARDLQPAMPEPPTHSMGSCAPE PPR
6194	36562	A	6244	3	236	
6195	36563	C	6245	1	1608	
6196	36564	B	6246	1	1083	
6197	36565	A	6247	823	1055	KQKDG TGAPWSRGRSSGRLG THRSPRRGWEAQAWRAAGPET CPAGRQLRPGEKSSAAPG*RSR RKDAYEMDTAKKK
6198	36566	B	6248	1	390	
6199	36567	A	6249	27	363	
6200	36568	B	6250	1132	1268	
6201	36569	A	6251	11	489	
6202	36570	A	6252	356	638	
6203	36571	A	6253	1	507	
6204	36572	A	6254	80	336	
6205	36573	B	6255	100	912	
6206	36574	B	6256	821	2992	
6207	36575	A	6257	2	602	
6208	36576	A	6258	1	519	
6209	36577	A	6259	3	228	STGVVPSQ\RTCLLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
6210	36578	A	6260	1	963	
6211	36579	A	6261	1	925	
6212	36580	A	6262	1	397	
6213	36581	A	6263	1	2625	
6214	36582	A	6264	11	241	SLQHLNPATFLPVSKSPVKHNC VEVLDSVYSSGPNHRDHP*TSV DWELYMDGSSFTNPCKVTLKK TTSPAPVTPGS
6215	36583	A	6265	1	1662	
6216	36584	B	6266	1	897	
6217	36585	A	6267	3	258	
6218	36586	A	6268	1	279	
6219	36587	A	6269	1	258	
6220	36588	A	6270	1	639	
6221	36589	B	6271	1	1935	
6222	36590	A	6272	698	1643	



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6223	36591	A	6273	91	386	IFDFLLLYVSGCNSIAEPQHFT TTVTRCSPTVAFVEFPSSPQLKN DVSEEKDQK\KP\ENEMSGKGG SWVLFTKGEVQEWRESGLNPT KFNMGPLIYS
6224	36592	A	6274	1	2538	
6225	36593	A	6275	1	471	
6226	36594	A	6276	152	520	CPLTLLLP SRGAGLGTCSPPCLS LPPTPWAPVRPEPPRRAPPPAPR RPVPSTGKEQTTQGLRNASARR GTGRQLHL\SPGVGSTG*SQGL
6227	36595	A	6277	831	1449	HPGQWLRRVCWVSSGAGPLAL CSISCPALAAFP RVGLGTCSPPC LSLPPTPWAPVRPEPPRRAPPPA PR/PPSPIDHPRAEYE/PHGAGL AGSSTCSPSAESTG*SQLGS*VV RVRGFILEVSETKNPPIDTFGL PPGSSSAASTLVQVTRL*ISAI SL PHLLSRPCSNTARGVPVPAPVPG AAVRAPAAGGRWCGGARGRG RRGGGH
6228	36596	C	6278	1	426	
6229	36597	A	6279	1	535	MKHSGAQLASPSGS\PLGPQVE LPASPVPCACTSQPLGGRWDW APWSRGWCSSGRLGPHRSPWS GWE\LRHGGLQVSPAPREGS* GPARNP/GTAPGRPAAPS\GGPP SPRPPRTAGPQALRAAPVP\LA PLPPHLPAS*GSGLQWPA*KE APTQQCAEGLLKCRQSGSPGR GGAESE
6230	36598	B	6280	1	1743	
6231	36599	A	6281	1	428	GTR EHLKRSGREIALPIEACV MLLLETGMKEEGLFRIGAGASK LKKLKAALDCS\ILT WDEFYSD PHAVAG\ALKSYLRELPEPLMT FNLYEEWAQVASVQDQGQKT FKDLWRTCQKLPPQNFVNFRY LIKFLAKLAQTS DV
6232	36600	A	6282	135	512	LPFRGAGLETCSPPCLSLPPPPW APVRPKPPR*APPPAPRRVPST TQGS LGPHCFYEL*HSP*RSAAS LLKPARP*AHREERTTP/GRSAL/ TSCNTHREGLQ/PSLRKKETPNT SEHQKEQTPDAPP

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6233	36601	A	6283	698	2233	IQAAMQAAPQFGPSTED*CCPIT SEAPWAIMDAKLRLKPPSHPPPL VSPHLNPQVWDTSSPSLATEHA SLTISLKPNNHPYPAQSQYSIPQH ALKGSKPVITRLLLEHGLLKPIN PYNPILPVQKLDKSYRLVQH. CLIQIVLPIHPMPVNPYTLSSI PFTTHYSVLDLKHAFFTIPLYP SQPLFAFTWTDPDTHQAQQITL AVLPQCFIDSPHYFSQAQISSSS VTYLGIIIMKTHIGLGAVEQGV VLVGEEARAAQEPMEWVGSG MVGCRSRALPRGKAARREI ERSAVTIVPVLDFNPAFHIIPDTT PDHHDCLSLIHLTFTPFPHISFFP VPHLEHTWFIDGSSTRPNCHSP AKAGYAIVSSTSIEATALPRST TSQQAKLIAYTDSKCAFHILHH HAVIWEERNFLTMQGASHNAF LIKTLKDLLPKEAGVIHCKGH QKASDPITQDNAYADKVAKKQ LAFQLLSLTAVFLLLIRPLSPTSP LKLPLINLFPKANDS
6234	36602	A	6284	1	1239	
6235	36603	A	6285	1	477	QRPPHGVFVLGVAGRVHGPPEL ASHKAGPQLGDVGVCAQQGG QVGPLVLQPVVEHIQQLPG/AG HCAHQ*QGSPS*SSLRPERSLQ CRRPQGATATIRSTWWGPRGP VCTAALVPLCWPGWPVQKDEL QAVRSHSALASAMQTCSLAGP GLGSSHARLTA
6236	36604	A	6286	1	1134	
6237	36605	A	6287	673	836	
6238	36606	A	6288	1	225	
6239	36607	A	6289	1	468	
6240	36608	A	6290	495	1637	ESQVLSNVSPHVKV*NMASWE GKDLTVPPQPDTRKGSVLRISK RGRNASCS*DKRKASVSCLSLG NGMSRYKTRLYAPSTEIGKNRL RAGGGTCGQQYCFVKH
6241	36609	A	6291	1	507	
6242	36610	A	6292	215	389	
6243	36611	A	6293	1	255	
6244	36612	B	6294	69	1055	

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6245	36613	A	6295	23	1596	IKPQRWGETRAEMLKILKTREP FLLQRIASPRQQWKNKAGQRRS WFFERL/NKIDRLLARLIKKKRE KNQIDAIKNDKGDITTDPTIEIQT TIREYYKHL YANKLENLEEMD KFLDTYTLPRLNQEELESLNRPI TGSEIEAIISSLRTKKSPGPDGFT AEFYQRYKEELVLFLLKLFQSIE KEGILPNSFYEASHILIPKGRDT TKKENFRLISLMNIDVKILNKIL ANRIQQHIKKLVHHDQVGFIPG MPDWFNICKSINIIHHINRTNGK NHMIISIDAEKAFEKIQQCFMLK TLNKLGDGMYLKIIRAIFDKPT ANVILNGQKLEAFPLKTGTTQG CPLSPLLFKIVLEV LARAIRQEK EIKRIQLGKEEAKLSLFADDMIV YLENPIVSAQNLLQLRSNFSKV LGYKINMQKSQAFLYTKNKQT ESQIMSELPFTIATKRIKYLGIQL TRDVKS LFKENYKPLLSKIKED TNKWKNIPSSWIGRISIAKMAIL PKVIYTFNAIPIKLPMTFTELEK
6246	36614	A	6296	1	1488	
6247	36615	A	6297	1	1401	
6248	36616	A	6298	2	1256	
6249	36617	B	6299	84	955	

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6250	36618	A	6300	735	2718	RSFPRSRPSPFLLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVIHKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQTTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTA E FYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPGRD TTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFI PGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQQPFMLKTLNKL GIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPLSPLLFNI VLEVLARAVRQEKEIEGIQLGK EEVKLSLFADDMIVYLENPIVS AQNLLKLISNFSKVSGYKINI QK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNKWK NIPC SWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARKSILSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYLIF DKPEKNKQWGKDSL FNK*CWE NWLAIWRK LK
6251	36619	B	6301	1	2907	
6252	36620	A	6302	1	2358	
6253	36621	A	6303	1	1866	
6254	36622	A	6304	1	885	
6255	36623	A	6305	1	1059	MKNNSESEFEP LLLIPRQRGSGV DLQQTPTDLQLRVLT VRRKTN KQDIHTKTPTVRHHHQ RPKNP WDTFKAVCRGKFIALNAH KRK QERSKIDTLTSQLKEVEKQEQT QSKASRRQEITKIRGELKEIETQ KTLQKINESRSWFF EKINKIDRL LARLIKKKREKNQIDTIKNDKE DITTDSTEIQT TIREYYKHLYAN KLENLEEMDKFLNIYTL PRLNQ EEVESLNR PITGSEIEAIINSLPT KKSPGPDGFTA E FYQSYQEELV PFLKLFQSIEKEGILSNSFYKA NIILIPKPGRD TTKKENFRPISLM NIDAKILNKIL/ANRIQQHIKKLI HHDQVGFI PGMQGWFNI
6256	36624	A	6306	1	1692	

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6257	36625	B	6307	1	2871	
6258	36626	A	6308	2	2315	
6259	36627	A	6309	1	1210	MMSFHLSVHTAIDGSHSSCS AWCSPIDRDYFEQENSSSSCC CCCYHCHRKHCGGKGLSFPGE MPLSPGHFNKMMYSVSELMQG SGSGTFIPLPAELSLWLLVTNTK GQRMINKDAEIQTIREYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVESLNRPTSSEIVAIIN SLPTKKSPGPHGFTAIFYQRYK EELVPFLCLKFQSIEKEGILPNSF YEASIIIPKPRDRTTKKENFRPI SLMNSDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISIDAE KAFDKIQPFMLKTLNKL\GIK YLGQILTWDVKDLFKENYKPL LKEIKEDTNKWKNIPCSWVGKI NIMKMAIPPKATSPLESYKREK
6260	36628	A	6310	1	2745	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVVRPNLRLIGV PESDGENGTLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVMKEKM LRAAREKDRSTRQKVNDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNNLLN DYWVHNKMKAEIKMFFETNEN KDDTYQNLWDTF

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6261	36629	A	6311	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLELEKQEQTTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRS\ARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTITIREYYKHL YANKLENLEEMDKFLDYTLPL RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLKLQFSTEKEGILPNS FYEASHILPKPGRDITTKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMISID AEKVFDKIQRFMLKTLNKL LEVLAARVROEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMSTFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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6262	36630	A	6312	2	2143	SSDGSWWTGFQWREWRQAGR SVNSWDNPKQEVRASSKDKSR GSIQEAMRMQSSAKLLCSAWT LAYSIAVRTLSSDSEGQPPLVIH RQTGSGEDLQQTPTDLQLRVLT IRRKTNKQKGHPHQNPISRRQ EITKIRAE LKKIETQKPFKKINES RSWFFEKINKIDRLLARLIKKKI EKNQIDA IKN DKG NITNPTIEQ TTIREYYK HLYANKLEHLEEM DKFLDIYTLPRLNQEEVESVNR PITGSEIEAIINSLPTKKSPGPDRF TAELYQRYKEELVPFLLKLFQSI EKEGILPNSFYEASHILISKPGRD TTKKENFRPISLMNIDAKILNKI LANQIQQH IKKLIHHHQVGFIPG MQGWFNILKSINVIHHINRTKD KNHMIISIEAEKAFDKIQPFML KTLNKL GIDGTYLTYLKIIRAIY DKPTANIILNGQKLEAFPFTGT RQGCPLSPLLFNIVLEALARAIR QEKEIKGIQLGKEDVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SEVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKTLNQKFSYWFRVKNKHYI HQRTFPLKETEFNTIATLYNGA SP/CTAPKSTGTNGHQASGLPRF *RIAFCSALVKSKRKLYQGYP GQTDREEGVSWCPGGP
6263	36631	A	6313	1	3018	
6264	36632	A	6314	1	2016	
6265	36633	B	6315	1	1215	

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6266	36634	A	6316	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRIKNLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTLSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKREKNQIEAIKNDKG DITNPTETQTTIKEYYKHLKY NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPIITGSEIVAIINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLKLKLFQSIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQVPVCR*H DCVSRKPHHLSPQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMLDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
6267	36635	A	6317	1	1797	
6268	36636	A	6318	2	2063	
6269	36637	A	6319	1	1212	



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6270	36638	A	6320	1	2718	MALFRVGMTTTTRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEKEIE TQKTLQKINESRSWFFEKINKID RPLARLIKKKREKNQTDITKND KGDITDPTIEIQTIREYYKHLY TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAEFYQRYKEE LVPFLLKLSQSIEKERILPNSSYE ASHILIPKPRDRTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSGHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMALLPRFSAIPIKLPMT FFTELEKTTLKFIWNQKEP/CIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNYLIFDKPDK KKEWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
6271	36639	A	6321	1	2307	
6272	36640	A	6322	1	1989	
6273	36641	A	6323	1	3285	
6274	36642	A	6324	3	4732	
6275	36643	B	6325	1	2693	

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6276	36644	A	6326	603	2976	DNTARGTIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICSPSSKTKETQTTIREYY KHL\YANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAEFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASIIIPKLGRD\TTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSINVIHHMKRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKL\GIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLL\FNIVL\VLARAIRQEKEIK GFQLGKEEVKLSLFVDEMILSL ENPMVSAKNLLKLISNFSKVSG YKINVQKSQAFLYTSNRQTESQ IMSELPFTIASKRIKYLGIQLTGD VKDFFKENYKPLLNEIKEDTDK WKNIPCSRVRGRINIMKMAILPK VIYRFNAIPIKLPM\FFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTAC HRVGRAQQHSISKWKWYIHDW SQVGPEGTNDSARYPD\TTQKW TAAALQPLSRTSLKDSHEGKSS QWAE\LRVHLVLRFAWKEKW PDVQLYTDSWAVASGLAGWS GTWKKH\DWKIGDKEIWGRATP VIAQWAHEQRGHGGRDGDYA
6277	36645	A	6327	3193	6107	SMKTGLEKKMKRNEQSLQEIW DYV\KRPNLPLIGVPESDGDNAT KLENTLQDIIQENC\PNLARQANI QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGRV THKGKPIRLTAALSAETLQARR DRRP\FINILKEKNFQPRISYPAK LSFVSEGEIEYFTDKQMLRDFL MTRPALKELLKEALNMETTGA PRFIKQV\RELQRDLDTHTIITG DFNTPLSTSDRSTRQKV\NKDIQ ELNSALHQADL
6278	36646	A	6328	1	1808	
6279	36647	A	6329	1	4695	

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6280	36648	A	6330	1	2915	MIMGDFNTPLSTLDRSTRQKVN KDTWELNSALHQADLIDYRTP HPKSTEYTFFLAPHHTYSKIDHI AGNKALLSKCERTEIITNCLSDH SAIKLQLRIKKLTQNHSTTWKL NNLLLNDYWVHNEMKAEIKIF FETNKNKDTTYQNLWDTFKAV CRGKFIALNAHKRKQERSKTDI RTSQLKHLENQEQTHSKASRRS WFFEKINKIHRPLARLIKKKREK NQIDAINKDKGDITNPTEIQTII REYYKHLTYN
6281	36649	B	6331	1	6730	
6282	36650	A	6332	1	378	
6283	36651	A	6333	3	1700	
6284	36652	A	6334	1	1759	
6285	36653	A	6335	2	409	
6286	36654	A	6336	1	2051	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLHYVLTKNNTTVTEQ NRNLLVETIRSITEILIWDQND SSVFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNII TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQ'DDEHR NRGKLSDLVAEHLDDLHYLND ILIINCEFLNDVLTDLNRLFLP LYVYSLENQDKVFLIIHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGHLKCSSHLCAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVA HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSGKTTTV TKHQPPAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNK/GKSPEKEEGLS GTQSHPGKAGTFGKEGAEERK
6287	36655	A	6337	2	2753	
6288	36656	A	6338	1	577	
6289	36657	A	6339	1	849	

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6290	36658	A	6340	1	1293	
6291	36659	A	6341	1	861	
6292	36660	A	6342	154	6208	RRAPGKIPGQASAF LGRTWSRP CLRTQLCVIVSCLAKAGVQGYL VGSPGGAKRFLFSERTGSFSKL AAMSSWLGGLGSLGQSLGQV GGSASLTGQISNFTKDMLEGE TEEVEAELPDSRTKEIEAIHAIL RSENERLKKLCTDLEEKHEASE IQIKQQSTSYRNQLQQKEVEISH LKARQIALQDQFLKLQSAQSV PSGAGVPATTASSSFAYGISHP SAFHDDDMDFGDISSSQEINRL SNEVSRLESE
6293	36661	A	6343	3810	5310	SQGTCPDRPCNVSG*RI\SIEEI EAGRIPNPHLGPVEERLALHVL QQQGLVPEHVSRPLYSPLQPD IEQAFPSFGRKSRWIRVIPFRFF LRCIWNTRDVILDDLSTGEK MSDIYVKGWMIGFEEHKQKTD VHYRSLGGEGNFWRFIFPFDY LPAEQVCTIAKKDAFWRLDKT ESKIPARVVFQIWDNDKFSFDD FLDPYAIVSFLHQSQKTVVVK TLNPTWDQTLIFYEIEIFGEPAT VAEQPPSIVVELYDHDYGADE FMGRCICQPSLERMPRLAWFPL TRGSQPSGELLASFELIQREKPA IHHIPGFESDLDLPYPPQREA NIYMVPQNIKPALQRTAIEILA WGLRNMKSYQLANISSPSLVVE CGGQTVQSCVIRNLRKNPNFDI CTLFMEVMLPREELYCPPITVK VIDNRQFGRRPVVGQCTIRSLES FLCDPYSAESPSPQGGPDDVSL LSPGEDVLIDIDDKEPLIQNYA
6294	36662	A	6344	1	527	
6295	36663	A	6345	5251	5711	PPQRGPPSSSCYSRSQRSVSRCP SRHRPSAASPRGRPSGRSGLLA GLRLWAGAGCFQCPPCLQRGL FSPEALRPQAPAHKGLFSGSLW PQQRSHQGLRAAATS*DRRAG ALCKWCPRPSGTTPRGEHLS*EN ESLPP**RWAHQTA PQESQTS
6296	36664	A	6346	1	924	
6297	36665	A	6347	1	894	
6298	36666	A	6348	1	525	
6299	36667	A	6349	6	343	
6300	36668	A	6350	1	2693	
6301	36669	A	6351	26	353	
6302	36670	A	6352	1	9182	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6303	36671	A	6353	1	8655	EAAKDLADIAAFFRSGFRKNDE MKAMDVLPILKEKVAYLSGGR DKRGGPILTFPARSNHDIRQE DLRRLISYLACIPSEEVCKRGFT VIVDMRGSKWDSIKPLLKILQE SFPCCIHVALIHKPDNFWQKQRT NFGSSKFEFETNMVSLEGLTKV VDPSQLTPEFDGCL EYNHEEWI EIRVAFEDYISNATHMLSRLEEL QDILAKKELPDLEGARNMIEE HSQLKKKVIKAPIEDLDLEGQK LLQRIQSSESF
6304	36672	A	6354	1	1338	
6305	36673	C	6355	152	404	
6306	36674	A	6356	137	1278	MDSQPNSTRGQSGRR/MEIKGI QLGKEEVKLSLFADDMIVYLEN AVTSQPKISLS**ATSAKSQDTKS MCKNHKHSYTPITDKQRAKS* VNSHSQLLQRE*NT*ESNL*GT* RTSSRKTTNHCSMK*KRIQTNG RTFHAHG*EESIS*KWPYCPR*F IDSMPSPSSYQ*LSSQNWKRL SSSYGTKKEPASPSQS*AKRTKL EAS/LLPDFKLYYKATVTKTAW DMDEAGNHHSQQTITRTKNQT PHVLTHRWELNNENTWTQEGE HHTPGLVVRSPDPEQNFKAVR CLDLDP/PSSSFLAVLTFHFKA FLQSLR*DKPRS/SPALGTWHKP *KITPKKQ/HQAITKPNTEYRTA VKPSVVGALPDINSFLKLGLLH RITNGCLLD

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6307	36675	A	6357	1	2569	MRTKTQHTRISWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTSHKASRRQEIT KIRAELEKETQKSLQKINESKS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTETIQTTH REYYKHLKYANKLKNLEEMDKF LDTYTLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMQ GWFNIRKSINVIQHVNRADKN HMIISIDAEKDFDKIQQPFMLKT LNKLGIDGTYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGC LSPLLFNIVVEVLASAIRQEKEI KAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFIIASKRIKYLGIQLTRDVKDLF KENYKPLIKEIKEDTNKRKNIPC SRVGRINIVKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYSYQNR DIDQWNRTEPSEITPHIYNLYIF DKPEKNKQWGKDSL FNKWWG ENWLAIWRKLKLDPLTPYTKI NSRWIKDLNVRPKTIK'TLEENL GITIQDIGMGKDFMSKTP/TSG NKRQN*QMGSNETKELHHSKR
6308	36676	A	6358	1702	2252	FLSLFFFISLASSLSILLIHIMNSW IPHSPIFTDLNVESSRLCPLGDIM M*IPLTWYLIVTCTHLSREITTV PRGLARLWSFTRICPRTHCKPIP A\VLLRAGCPPSCWWDQDTHS QLPSKRSSYTFFCTVTEYPFLD *WP*NHGTPC*TAPLWSMF/PCS CWYPVTGPGVSCSPSCVQVFSL FISHL*VRTCGVWFFVLAIVC*E *WFPASSMSQAVLVTVLAL*YSL KSGSVMPPAFSFGGLTWRCL LFFGSIRTLK*IFPIL*RKSLVA* WGWH*YKLRWAVWPFSRY*F FLPMSM/VMFFHLFVSSFISLSS GL*FSLKRSFMSLVSWIPKYFIL FEAIVNGSSLMIWLSVCLLLH KNACDFCTLILYPETFLKLLISL RRFWAETMGFSRYTIMSSANR DNLTSSFPN

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6309	36677	A	6359	207	1209	IPRHHHPKTKPGRS*/TP*IDQ*Q ALKLRQ/CINSLPTKKSPGPDGF TAKFYQSPSLTGKNDKEPEILPY FHADFLVVPGTHQASPVLMVL GHKSFPHRNSPPSVCMANFFTQ KPPSQSIHNAVNTHTDPPLFLVL LKDRGLLVIWCHESQGDELWH LVLLDSKCCFGSMTHRMEWSG PSAAGLLEFAGGPLQTLFAWVS AVEAAEQRILLNSKCCCLHIPLE ALSQRGIWPWQGSVPVPRPWTTT TLWPVRNQATQQETSLMPCQL EGKEPLALPTKEAEIEGRRTGEI KKVERDSNTNKEELLLDLAFK VSSLFDKLEEVVELLVIGELQL YPSK
6310	36678	A	6360	544	678	AFFHVSGFCINVFF*EVSVHML CPLFDGVVFFLVNLFEEFFVDSG
6311	36679	A	6361	7	94	VRTSGVWFFVLAIVC*E*WFP SSMSLIY
6312	36680	A	6362	381	431	ATKQDSVSKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEKEK/GNK ERKK/DKGKARQVQARQIYLLS LHLGRIRKVPNNNKA*SSCP
6313	36681	B	6363	1	603	
6314	36682	A	6364	1	987	
6315	36683	B	6365	1	444	
6316	36684	A	6366	977	1177	RTSISSPVSSSTCSPLVMPTLLPQP TVPWRMWRPCTQ*RNAGTFSP AVAMGLPVEAVICLSV*DSPA
6317	36685	A	6367	1148	1395	
6318	36686	A	6368	33	663	VHVLCGDTDETGNHHSQQTIA RTKNQTPHVLTHRERLSLRRL HSCAYSLHRWLGARHAQKGS NTKGC GGQGPRTSERGPASGEF SENCTSLLGQRGVFSPGRRALL HSPSDG\SVPLGAVDSSPASTR RDWSHWAVGKPSPEREPAGKV T*TTRQLQPASP*REHPLLNSQH GHCLKISLPLLPTVLSPSPPLSLC SNVTFSTRPLT
6319	36687	A	6369	1	1314	
6320	36688	A	6370	120	410	
6321	36689	A	6371	1	492	

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6322	36690	A	6372	3	945	EEVPRSMSSKKKKRKRKRKR EEEEEEEEEEEEEEEEEEEE EERRVEGEGEEEEEGKEKID PSHLELKMVRNKNMTMYEVCLM PIGIKPQVNVGAMQCILVAPYIS PIVGVINFNDQVNSQGGGSKME DGIHFRGKVMLHVGKRKQVRK KGLGYAFISSMKTNEYTKLVVPV EWGLAEKIPKNVEATLELGNRR SKKTGGILPLLLWNFELERDEL GYLVEEISKQPSIQQMTWVLLK AFRFIQEAEPKSSLENLNDNVIE KKNPFSEGKFM LAEICISNEE WNGNVNPQDYGGKWLGMA EVFTATPSITGLEA
6323	36691	B	6373	1	792	
6324	36692	C	6374	348	884	
6325	36693	A	6375	1	588	
6326	36694	B	6376	1	5339	
6327	36695	B	6377	520	3146	
6328	36696	A	6378	1	2044	
6329	36697	A	6379	1	585	
6330	36698	A	6380	1	2433	
6331	36699	B	6381	53	441	
6332	36700	A	6382	2	425	
6333	36701	A	6383	1386	2569	FLRKHRESGKDEEMTALCSFPG VAGEDELQVIQPEKSVSVAAGE SATLRCAMTSLIPVGPIMWFRG AGAGRELIYNQKEGHFPRVTTV SELTKRNNLDFSISINITPADAG TYYCVKFRKGSPDDVEFKSGA GTELSVRAKPSAPVVSGPAVRA TPEHTVSFTCESHGFSRDLTK WFKNGNELSDFQTNVDPAGDS VSYSIHSTARVVLTRGDVHSQV ICEIAHITLQGDPLRG TANLSEAI RVPPTLEVTSQPIRAENQANVT WQVSNFYPRGLQTLWLENGNV SRTETASTLIENKDGTYNWMS WLLVNTCAHRDDVVLTCQVEH DGQQA VSKSYALEISAHQKEH GSDITHEPALAPTAPLLVALLLG PKLLL VVGVSIAIYICWKQKA



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6334	36702	A	6384	1	2453	MEPAGPAPGRLGPVLCLLLAAS CAWSASRQLPAVQVLRGDVTC GSDHVFLLAYIKHLAVAGRRA LKATVHVHQRTLLRPGGCGSV PGKRAVTLISKCSGGQPAFPGA PAGNTNTFLVCSCGFPDLQSSR GPERALCAFIQCLMVRPEEQRE KNWPGPRGRSMARPGWNAKPP VVQAKAFKNWAVLELSTVSAR NLTGSRIPRENTKVILIGTIWVL CFLGSALGVCDPGGTHSHLAM HVVIFGPVGSNNPSIVIIIIIRPIL QIKSQRSRVGETFPGVSWVAEL ESKSKHTFSQCQALLQPWGRK LSSCSQRTYNLLLVCIQSMNVI DKHLRKHGRGSRVAGEEELQVI QPDKSVLVAAGETATLRCTATS LIPVGPIQWFRGAGPGRELIYNQ KEGHFPRVTTVSDLTKRNNMD FSIRIGNITPADAGTYCYVKFRK GSPDDVEFKSGAGTELSVRAKP SAPVVSGPAARATPQHTVSFTC ESHGFSRPDITLKWFKNGNELS DFQTNVDPVGESVSYSIHSTA KVVLTREDVNSQSFW*GPTVT LQGDPLRGATANLSETIRVPPTLE VIQQPVRAENQVNVTCQVRKF YPQRLQLTWLENGNVSRTEA STVTENKDGTYNWMWLLVN VSAHRDDVKLTCQVEHDGQPA VSKSHDLKVSAHPKEQGSNTA AENTGSNERNIYIVVGVVCTLL
6335	36703	A	6385	1	405	
6336	36704	A	6386	91	2926	PACPSRLPFTNTDTHIDTSSPA SRSTRCLCISTHGVLAQSGGSSG GPAVPTVQRGIIKMVLSCAIIV RGQPRGGPPPERQINLSNIRAGN LARRAAATQPDADTPDEPWA FPAREFLRKKLIGKEVCFTIENK TPQGREYGMIIYLGKDTNGENIA ESLVAEGLATRREGMRANNPE QNRLSECEEQAKAAKKGMWSE NGSHTIRDLYTIENPRHFVD SHHQKPVNAIIEHVRDGSVVRA LLLPDYLVTV
6337	36705	A	6387	2	448	
6338	36706	A	6388	1	645	
6339	36707	A	6389	1	294	

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6340	36708	A	6390	23	321	RGREHTQGIPGAGKRWH*FKV LLTQ/CW*SEFSVIRQFKAGPGG LDQFRDRSK/RWLRDLRGRLLG SLNASLVLRALFSGNWGLTAN QL*LAVGAKGDPEA
6341	36709	A	6391	1	1599	
6342	36710	A	6392	1	561	
6343	36711	A	6393	1	1833	STLASSEGQGGFWRGPRALILL LLFLGPCHARSHDGKYSREKN QPKPSPKRESGEEFRMEKLNQL WEKAQRQERYPCRRRRRVKQV AAGTPRVFLKTPEMGVFELCRP SGPHYLISNAGVRLDLLNSPVL SIPESLRGKVNDLQNKKELLER KGRGETGLARPMHDLTAAQGG YGCALVHGAQVEGAGAQQWA GTVHATCRGETGTACQEALVT ATACSSCQRGQTRAPQGQHTL ESMGLNCLPQGAASGSDHHCG PRISDLPGSAARTSRWPASSELH LPPVRLAELHADLKIQUERDELA WKKLKLDDGLDEGEKEARLIR NLNGHWRAEDAHQDGGVKNK WDIPTVVGVGVAALVAVKL FFLPINIRCVLSESPATLHSLQV ASVLWSLEFLPYGSRSPVVIQET VILAKYGLDGKKDARQVTSNS LSGTQEDGLDDPRLEKLWHKA KTSKGFSGEELDKLWREFLHH KEKVHEYNVLLETLSRTEVHPG PQDGVASTGREHSPMETLQEE LKHFEAKIEKHNNHYQK\QLEIA HEKLRHAESVGDRRSV*SASPR ESTPCLEGRTKGAGLPR*KKHL QD\LSGRI\SRARHKRTLKALGS
6344	36712	A	6394	1	185	DDFDNSAQVTIAGIPCDIRHVSP RKIECTTRAPGK\I*GSPPLSQAI EGFFLKLEMLLRDWN
6345	36713	A	6395	1	1512	
6346	36714	A	6396	117	268	QSLLLEYLHLYLHLCLYHLANK QELTLTWYKE*CTFFLPSV*NPF HQNLA
6347	36715	A	6397	1	500	

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6348	36716	A	6398	1301	2565	TLLTILPFYLFKNRTSLTGYLRI WILSTKLFCLSTLWLAPTLFLIP/ LPDPHDCISLIHLAFTPFPHTSFF PIPHPDHTWFIDGSSTWPNRHSP AKVGYAIVVSSTSILEATALPPS TTSQQAELIALTRALALAKGLH VNIYTDSKYAFHILHHNAVIWA ERGFLSTQRSSIIASLIKTLKA ALLPKEAGVIHCKGHQKASDPI AQGNAYADKTKFLDLAFPPLR LSFTCQITQAVSQALGIQWNH TPYRPOSSGKDWTVFLPLALHR IRARPREATGYSPFELLYGRFTL LSPNLVPDTSPLGDYLPVLWQA RQEIHQAAANLLLSTPDSQLYED TLAGRSVLIKNLTPQTLQPRWT GPYLVYSTPTAVRLQDPPHWV HRSRIKLCPSDNQPNLSSSSWKS QVLPTTSLKVTLISEEQ
6349	36717	A	6399	581	2517	LFLGYSHTSLLPFPVQSLHLL PLYLHTLTHKYGIPLLPWRPIM HPLPSH*NLITLTLNANIPSCST L*KD*SLLSLTCYSMAF*/QPINS PYNPILSVQKPKPYSSFRYVY SLFVESPTITIVPGPDFNLASHIIP DTTDPYDCISLIHLTFTPFPHVS FFPVPHPFHTWFIDGSSTRPNCH TPAKAGYAIVSSTSIIEVTTLPHS TTSQQAELIALTRTLTLAKGLC VNIYTDPI SCTTMLFYGLKCFLT MQGSSIINASLIKTLKAALLPK EAGVIHCKGPQKASDPIAQDNT YADKVAKKAASVPTSIPHSSFS PSHLVTPYSPETSTYQSLPTQ GKWFLDQGKYLLPASQAHSILS SFCNLFHVGKPLARLSELLISF PSWKSILKEITSQCSICYSATPQ GLFRPPFPKHQAWGFVPTQD WQIDFTHMPQVGKLLYLLVW VDTFTGWVEAFPTGSEKATVVI SSLLSDVIPRFCLPTSIQSNNGLA MISQITQAVSQALGIQWKLCTP YHPQSSGKVKWANGLLKTHLT KLSLQLKKDWTVLLPLALLRIR ACLRNATGYSPFELLYRCSFLL GPSLIPDTRPTWTAPPKTWHPY YLLSHTPIHRSQLLIHALLLFTL PVYTVSPSHHS

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6350	36718	A	6400	281	1095	DCSKRNRHSQVIAEGNICKIQE VRRKEDTQGGEKDPESELLLPL LAPGPTE/YSTYYNISVAKAELL NKLKDQPEMAEIGLGEEVDH ELAQQKIQLIESISRKLSVLREA QRGLLEDINANSALGEEVEANL KAVCKSNEFEKYHLFVGDLK VVNLLLSLSGRLARVENALNSI DSEANQEKLVLIEKKQQLTGQL ADAKELKEHVDREKLVFGMV SRYLPQDQLQDYQHFKMMSA LIIEQRELEEKIKLGEEQLKCLR ESLLLGPSNF
6351	36719	A	6401	1	972	
6352	36720	A	6402	514	736	
6353	36721	B	6403	446	991	
6354	36722	A	6404	521	903	NIKPASQISPG*I*VHSSPTQRLS APPSAA/GRLLSLSLPAGLVGGD TARCIPAGRLRPLCSWLDPGKL LHLSLKSKGSGGRSGAGTLQEG NQSVCIAEKPLKPAIQTQSG MNVLRRCRAYSWVIDWD
6355	36723	A	6405	11	545	
6356	36724	A	6406	3	2920	
6357	36725	A	6407	1	2388	
6358	36726	A	6408	275	479	
6359	36727	A	6409	1	3810	
6360	36728	A	6410	7	1047	
6361	36729	A	6411	1	705	
6362	36730	C	6412	304	638	
6363	36731	A	6413	99	759	WAYLDFWM*HIPHLGVLL/SAH LLSDLNSCQF*MGSRTGSATG PGSCSAALPLGPYPADPMVLE VSMADRASPDPPLAKFLFPVP MTLHSALLEVLVPEGGLPPGD TTTIPLNW/IVKIAT*TLWVPPTF KFTGCRLNTMWKLPRLGASTL *SNSLRCTLTSFSDHWSGWDAG HQVIRPHGFAGYNTCGCFHRL MLSACGFSRQMVQAVNGSTTL GSGG
6364	36732	A	6414	1	685	
6365	36733	A	6415	1	1359	
6366	36734	A	6416	3	7714	
6367	36735	A	6417	1	723	
6368	36736	A	6418	1	528	

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6369	36737	A	6419	38	530	HSPRRSAASLLSQRDHEPHQKE ETPNTSEHQKEKTPDTPPLRTV TLTVRVHGFIEVSETKNPPIPD TKLRG/ERLQGFGLAGFRSE/GC RPSP*VLQLIKAVWTQRPLGGR WDWAPWSRRWCSSGRLRPHR NQWSGWEAQAWGLQVPEPCP AGRQLRPGEKSSTAP
6370	36738	A	6420	1	649	
6371	36739	A	6421	1	987	
6372	36740	A	6422	1	924	
6373	36741	A	6423	1	435	
6374	36742	A	6424	1	147	
6375	36743	A	6425	1	1107	
6376	36744	A	6426	3	913	
6377	36745	A	6427	1	159	
6378	36746	A	6428	313	1083	
6379	36747	A	6429	1	1245	MAQELRDTCTSFSSRFDQVEER VMVIEDQINEMKQEEKFREKR VKRNKQSLQEIWDYVKRPNLR LIGVPEKNLEETDKFLDTYTLPR LNQEEVESLNRPTDSEIEAIINS LPTKKSSGPDGFTAIFYQRYKE ELP/RQRHNKKREF*TNIPDEHR CKSPQ*NTGKPNPAAHQKAYPP *SSGLHPWDARLVQHTQINKRN PAYKQNQGQKPHDYLSRCRKG L*QNSAALHAKNSQ*IRY*WDI SQNNKSYL*QTHSQYHTEWAK AGSIFENWHKRGMPSLTTPIQ HSVGSQGNQAGERNKGYSI RKRGSIQVPVYR*HNCISRKPH HLSPKSP*AGKQ/SSAKSQD/DKI NVQKSQAFLHTNNRQTESQIMS E/APIHNCYKENKISRNPYKGC EGPLQGELQTTAQRSKKGHKQI
6380	36748	A	6430	39	314	KSECLITYTKGSQRLASNGTKLD GE*L**VDRIRLQKIGNDKLLPA KGGCSNPSQRS*KPRKKIRQMA N*NKQHRGDLK*PDGAENHGT RTT
6381	36749	A	6431	213	843	VDRSRLQKVSNNKLL*AKGECS NPLQGS*KP*KKIRRMAN*NKH CREDLK*PDGVENNGTRTS*FM HKLQ*PI*SSGRKGISD*R*N**N KIHQG*NEGKSVKGSQRERSSY PQRKAHQTNBSGLSRNPTSQKK VGANIQHS*RKEFSTQNFISST KLHK*RRNKIFYRQADAERFCH HQACVTRAPEGSTKHGKKQPV PAPAKTGQIV

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6382	36750	A	6432	1	2112	MRAFVVLMDVSKLPSEGGPG LRSNQQHMRMFLTSVDRGSVS LLADAVAAATPQGTQSQPRGPS NLAADLRVAEESGSMENLFLK MSFDSIRPAQDGQCTPEISMVTP SPGWSVHTGDLGDHPLPRMVS AHRRSRWSPPPQDGQCTPEISM VIPSPGCSVHTGDLGDHPLPRM LSAHRRSRWSPPPQDAQCTPEIS MVTSPGWSVHTGDLGDHPLP RMVSAHRRSRWSPPPQDAQCT PEISMVTSPGCSVHTG
6383	36751	A	6433	1	648	
6384	36752	A	6434	1	1539	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE/ SAN*NQQCREDLK*PEAEIHGT RTS*HMHKLQ*PI*SSGRKGVSD *GSNQ*NK*WGEWNQVGKHS GYYPGELPQPSKAGQHSNSGNT ENTTKILLEKSNPKTHNCQIHQ G*NEGKSVKGSQRERTREARA NKFKS*QKARYN*DQCRTERD RNTENPSKN**IQEPVF*KDQQN **NASKTNKEEKREESNRRNKK **KNRTVKPHVSFTLLPALSHVS EKNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLAQANIQIQEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKGLERQEQTN SKASRRQDITKISAELEIETQK TLQKINEFRSRFFKKINKIDKTL ARLIKKKREKNQTDIAKNDKR DITTDPTIEIQTIREYYKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEAESLNRTITGSEIAIINSLPT
6385	36753	B	6435	137	586	
6386	36754	A	6436	129	506	
6387	36755	A	6437	1	237	
6388	36756	A	6438	182	1034	

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6389	36757	A	6439	203	650	SAIVCGSPLRLRMQAVSSRINSA HSRGAIYSQASSAACPVSIAF LRR*IEANVS/WIRTLSTLCTPK CGPGFKHRIVLCKSSDLSKTFPA AQCPEESKPPVRIRCSLGRCP RWVTGDWGQ/CDSRDPRPGRR RRDFCRNGRAGAGH
6390	36758	A	6440	207	426	AECTRCAIPK/HSCYPVLLIVVS P*KKQ\NCSLGELSCWRRESCRS SWSNKALPSLTRCLRGFVCGLS CYKGSS
6391	36759	A	6441	524	783	TAVLAARISNQWILSCWS/AVG CTPKCGPGFKHRIVLCKSSDLS KTFPAAQCPEESKPPVRIRCSLG RCPPPRWVTGDWGQSLPTREK
6392	36760	A	6442	1	1524	
6393	36761	A	6443	1	8738	
6394	36762	A	6444	1	642	
6395	36763	A	6445	1	549	
6396	36764	A	6446	8	434	
6397	36765	A	6447	1	2922	
6398	36766	A	6448	18	1158	FLDFDCPYGSAHITGLRFWLPW YRKRQRYWGSHGNCMPPLSLR VPERCPSHTEPRNLTGA*ELLLL GLSEDPQLPILAGLSLSMYLVT VLRNLLISLAVSSDSHLHTPMC FFLSNLCWADIGFTSAMVPKMI VDMQSHSRVISYAGCLTQMSLF AIFGGMEEVNMLLSVMAYDWF VAICHPLHYPVIMNPHLGVFLD LGAFFLSLLDSQLHSWIVLQFTF FKNVEISNFV*DPSQLNLACSD SVINSIFIYLDSIMFGFLPISGILW SYANNVPSILRISSDRKSKAFS TCRSHLAVVCLFYGTGIGVYLT SAVAPPLRNGVVASVTVAVVT PMLNPFIIYSQRNRDIQSALRRLR SRTVESHDLLHPFSCVGGKKGQA
6399	36767	A	6449	2	1535	
6400	36768	A	6450	1	635	
6401	36769	A	6451	222	1040	
6402	36770	A	6452	2	1135	
6403	36771	A	6453	1	576	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6404	36772	A	6454	2	694	QCGGIQRSHGWSWSQEASDSVW QLQSMWMLDKLTGVFAPRPST GPHKLR\ECLSRHIF\LRNRLKYA LTGDEVKK\CMQRFK\NDGKV RT\DITYPVGFMDV\SIDKTGR EFPVLIYDTKG/RAFAVHRITP/E EAQVPSCAKVRRDLCGAQKGIP HLVTH\DARTIPLPRSPSSKVND\ TIQ\DLLEDWARFT*FSSKFDNW *TCCMGDWEGA*P*GRNWVLI HQQRRRAPWDLF
6405	36773	A	6455	1	243	
6406	36774	A	6456	3	766	
6407	36775	A	6457	1	741	
6408	36776	B	6458	500	8643	
6409	36777	A	6459	1	7863	MKPRTLTVRVTALKVARLESV PSDVQMCSEFLPSDSAAQLASP SGSRTGAAGGAAYQSCAVLPH SSALWVVDGTRCRGAGGSAHQ GGSATQEPTERVEGSGMAGCR SRVLPHWKAANVLGMSVESAP AVEEEKGEELEQKEKEKEEDTS GNTTHSLGAEDTASSQLGFGVL ELSQSQDVEENTVPYEVDKEQL QSVTTNSGYTRLSDVDANTAIA HEEQSNEDIPIAEQSSKDIPVTA QPSKDVHVVKQEQNPPPA
6410	36778	A	6460	2	669	ERRRRKLTIPCPPHPAPPTGGQ ACRENAEGIL*AANTSEPGKDA EK*KIKV*LAP/CSHSGSSLQSDP HFGCSLGPS/DPALGLSGCILPPC SGSYLAPAPNSRIPKPKLKPW/H /ESYLPSAVRPHGTQAPGLWPE RGL*PAGFLLRPEPVRAASER/Q EAVSPER*VPRPPKAQQLHGQS PDPSSLCTALRQDHTHWLDARS VYPDWRGQPWPPLHQDCGHG GWR
6411	36779	B	6461	241	369	
6412	36780	A	6462	1	510	
6413	36781	B	6463	1	630	
6414	36782	A	6464	229	561	SCRGYSRILLFFHKSSWCSQVIS IFRYNIICSRLPKRWKWRP MNWL*YHWFQYHSSINFISFR SMWFIHINFKRSPAFILSGSWSIS IARWQIFVFFTTFGSRTKV



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6415	36783	A	6465	1271	1710	TEGLGHRSSSETPGGAALDALTG ERPRVACFPAARGRGLRPRPRL MIGPFETGGGQRLTLRPRRRR QRRRP/WQGLERPHVRNWGIEL ETLRDAFRPQPSVWRTARGEA GKRKGRLVECLGSQRKVLEGV LLYAVTRGSFPNLFTRPD
6416	36784	B	6466	1	772	
6417	36785	A	6467	1	1272	
6418	36786	A	6468	3	236	
6419	36787	C	6469	1	457	
6420	36788	B	6470	148	324	
6421	36789	A	6471	1	1407	
6422	36790	A	6472	1	651	
6423	36791	A	6473	619	835	
6424	36792	A	6474	52	535	
6425	36793	A	6475	319	647	LCRRIYMYFCVMKNWMQSLW KLCTNKR*RIDKPTLHQVVVRK *LTPLMKNQVDSLELLETRSL KKDPVELGSKSLRCCCQTEPV NLLPHVSIGTLKI*SRILRLQRP
6426	36794	A	6476	39	515	
6427	36795	B	6477	1	807	
6428	36796	A	6478	3	247	GANICCW*GLQE/VFHSW*KTQ EPSWLHLVDPTTGLQVELPASP APFARIPQLGGRWDWAPWSR GWCSSGRLGQHRSPWSG
6429	36797	A	6479	27	363	
6430	36798	B	6480	1132	1268	
6431	36799	A	6481	1628	2008	
6432	36800	A	6482	953	1087	
6433	36801	A	6483	2	443	QLAGRCGGRGMSGNRGC/WGA CGPAGVPGG/CWAWCALHSEE PASPALRSISRRALAAFPRGRAR DLQPAMPEPPTPSVGSCAAQAS PTSAAPCSMAPSPIDHPRAEECV ARRGTGRHDELIVALPFMMIPW HSSIQPFTIHPFNWNFG
6434	36802	C	6484	175	423	
6435	36803	B	6485	122	608	
6436	36804	A	6486	644	1149	KTMHWKAPLMSWHMHRASSQ KQTRTGTQT/MEAQLQQLQRY QEALLQVLRKGEKKAFNMGNI SEVLQRADESCSQFYERLYEAF QLCSPFDPEATENQCMVNAV VGQTQGDIRRLKQKLECFTGM NVTQVLEVATKVYTNCEEETQ GKGQFAGGSTYKGKGECPKTK
6437	36805	A	6487	1	2847	
6438	36806	B	6488	329	742	
6439	36807	A	6489	1	1035	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6440	36808	A	6490	13	630	INPPPPPFPEPPSSSNSPKMTDH KGERGEATRYMFSRPF\RK\HG VVPLGPHICRIYRKGDIVD\KKG MGYCSKKGIAPTKCY\HGQNLE GVLPMLPQHACWPFVVNQPV. GQSFFPRELMCRIEHI*ALLRAR DKLPETVLKENDSEKERSPNEK GTWGSNLKRHPGSTPEEAHIFV RTQWGRSLELAGTLFPMNFMG IIGVKEIK
6441	36809	A	6491	1	1020	
6442	36810	A	6492	1	330	
6443	36811	C	6493	250	372	
6444	36812	A	6494	1	345	
6445	36813	A	6495	2	335	TVRAYNVPQHAVGIVVNRQVK GKIPAKRINVGIKHFKHSTS*EN FLKRMKENDQKKKEAKEKVT WIQLKHQSAPPRE/AQCERTNG KEPELLEPLPYEFMHNTYIHIYV CVH
6446	36814	A	6496	2	490	
6447	36815	A	6497	150	536	NCKISFLHFCYIFVKALKKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQ/RKAPGKNLVYISLVLRA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
6448	36816	A	6498	54	553	
6449	36817	A	6499	131	803	TMFCQTGSSVRRVGPWPWAEN RTAMLRPCGGTFARKTRLSRLG NSPKMNEQQRGKRRGTPHIMFS KGLLRKHG\VVPLAHIFMR\IYK \KGDIVRHPRGMGYLVPKRELP PQSCYPWPKPGRSLTNVTPAML VGHLL*NKQV*GQRFLPKRNL MWRI*APFRHFLRSPRLASLKT CGRENGSRKKERKPKGGKVTW GFQLKRRHLGFPPQEEATFLLK EPIGGREP
6450	36818	A	6500	1	489	

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6451	36819	A	6501	29	2028	ENEEEGEKMASTDYSTYSQAA AQQGYSA\YTAQPTQGYAQT TQQA YGQQSYGTYGQPTDVS YTQAQT TATY GQTAYATSYG QPP TGYTTP TAPQAY \SQPV QGYGT GAYD TTTATV TTTQ ASYAAQS AYG TQPAYPAYG QQPAATCPT RTED*\NKPT ETSQPQSSTGGYN QPSLGY GQSNYSYPQVPGSYP MQP VTAPPSYPPTSYSSTQPTS YDQSSYSQQNTY GQPSY GQQSS YGQQSSY GQQPPTS YPPQTGSY SQAPSQYSQ SSSYGQQSSFRQ DHPSSM GVYQGESSGFGSGPGE NRSMSGPDNRGRGRGGFDR GGMSRGGRGGGRGGMGSAG ERG GFNKP GGPMDEGPDL DLGPPV DPDESDNSAIYV QGLNDSVTL DDLADFFKQ CGVVKMNKRTG QPMIHIY LDKETGKPKGDATVS YED PPTAKAAVEWFDGKDFQG SKLKVSLARKKPPMNSMRG GGLPPREGRMPPPLRGGP GGPGGP GGPMGRMGGRG GDRGGFP PRGSRGNPSG GGNVQHRAGDW QCPNPG CGNQNFWRTECNQC KAP KPEGFLPPFPFPPGGDRG RG GPGGMRGGRGGLMDR GGPGG MFRGGRGGRGGR GFRGGRGMD RGGFGGGR RGPGGPPGLME QMGGR RGGRGGPGKMDKGEH
6452	36820	A	6502	1	693	
6453	36821	A	6503	3	657	
6454	36822	A	6504	1	434	
6455	36823	A	6505	208	443	

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6456	36824	A	6506	3	2650	LLPAFLLLCSDSHFLQFCSQFAP RKTQSGSVNNIQANIIAKKSN NHLMKKNDQKFKDLPMAGH PIHHQAQGGPPGAKNPQEQRRP MGQTTLPAEQEESRVKCKNCG AFGHSARNKTCPIKRWSGALPL QVLGSHKEKENLKPAKAQLPFT TPGPFTTNDREKERSPSSTMNPS EMQRKASPRRWKHHNQTPSIH KVNKMVMSEEQMKLPSTKKA EPPTWAQLKKLTQLPKKSLN\ TKVTQTPENTLLAALMIVST/A GAAAANYTYWAYVFPPLIRA VTWMDNPIEVYVNNSAWVPGP TDDRCPDKPEEEGMMINISTGY RYPPICLGRAPACLMPAIQNWL VEVPTVGTTSRFTYHTGLLTFR DVAIEFSQEEWKCLDPALEDSY TRRKANSCGKPYKCNECGKAF TQNSNLTSRRHHSGEKPYKCS ECGKTFTVRSNLTIHQVIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGH SNLTTHQLIHTGEKPFKNECG KLFTQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAHQTIHT GEKPYKCNECGKVFRVGRGVSI GTTCLLSVFQVITVSSRKSRA ENRATQSILILAPPTSRGSGPGP ASVLRRLAQTRKRMAWTESCT AACAFPSCLVLLYRGRGVPTDL QVPAPLFSTQSKLKRPGSRTKSS
6457	36825	A	6507	54	360	CSTMNPSEMQRJAPRRQRHRS RAPSAHKMNRMMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESD
6458	36826	A	6508	525	3656	SSTMNPSEMQRKAPRRRRHR NRAPLTHKMNMVMTSEEQMK LPSTKKAEPPTWAQLKKLTQLA TKYLENTKVTQTPENTLLAAL MIVSMVVSLLPMPAGAAAANYT YWAYVFPPLIRAVTWMDNPIE VYVNNSAWVPGPTDDHCPAK PEEEGMMINISTGYRYPPICLGR APACLMPAIQNWLVEVPTVGT TSRFTYHTIDLMTEKWVVLASV EVLLRFPLKPGEDPTARYVSNK KCQPSVDWPTTISQRRGY
6459	36827	A	6509	1	246	
6460	36828	A	6510	1	246	

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6461	36829	A	6511	1	279	
6462	36830	A	6512	1	363	
6463	36831	C	6513	109	245	
6464	36832	A	6514	2	429	LMTFCWDTPRQSGVPRERMPH TGTWRTVGIRCPKKKLRANSS MMRGKVQPPRP/DIQAYGAAPF EDLQVDFREMPKCGGNKYVLV LGRTYSGWVEAYPTRTEKTR VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAK
6465	36833	C	6515	31	895	
6466	36834	A	6516	2	4735	
6467	36835	A	6517	263	418	
6468	36836	A	6518	120	295	YDPLPTWILGKISQRGAEEPAQ HPGCQL*LPPP/SPPR TSSSPSCA GLTSVSPRPRFPR
6469	36837	A	6519	1	1758	MKIRRRFPSSLQLSADLQVPVR KAPRQGV SQEKRTKPSLELMIS GTISQEDIRNNVTRGCTPPAIQR VISSPLLAI RNNVTEGVYTPCD TGGRVHLPVILLISR DGGHDIS FNIAVDVHSPCDTDPNIQGV EY DMTPNIAMNVQPPGTISQKRCT LPAILGLISYASSVNIRSNITGWL YIDRYVGSHVILYPLGIRMGVT GEMKGERRRGLHAATKWLEE HAPADYQNPQEYGR TQLPGTQ PQLDPHEREDMQRLNRDREAL LEGFKRGAQKATNVNKVSEVI QGKEESPAQFHQRLCEACAKQ VLVNGDAVSREEKR KENERQA RRNADLLVSCSNQSGPPKEARE ELWTKDYRPGQDLRLLSQATL TFHPTVPSPSTLLGLLPAEDSWF TCLDLKDAFFPIRSAPESQKLFA FQWEDPESALAKTVRQRCVSC RQHHA\GKVQPPRP/DIQAYGA AAFEDLQVDFTEMPECGGNKY LPVLGRTYSGWVETYPTRA EK AREVTRVLLRDLIPRLELPFRIG SDNGPAFVADLLQKTATVLGIT RKLHAASRPQSSGKGIQNNRTG GVYTPCDIESHVILFRSGY
6470	36838	A	6520	1111	1342	MFVPHIGFQNTAALCLLRLGLV FP*PVGFPA GSCLLI*WNRHWH VPDFSCVTT PQEWCGGVSDVC CGHPHAEPFHLQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6471	36839	A	6521	1	1144	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSSQLEI ASQVFVNDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRALAATALLVQEANKLTLG QKLNKASRAVVTLMNTKGHH WLTNATLTDYQTLLENPRITIE VCNTLHPATLLPVSKSPVKPGC VEVLDSIDSSRPDLWDQPWASV DWELYLDGSSFFNPQGEVEGAS RGDTSELPPCWVCGIPALTQRL EKQHLPPSGHQGSLKHLIWDLL LLTKKRTFSSMI
6472	36840	A	6522	1	554	
6473	36841	B	6523	63	620	
6474	36842	A	6524	1	796	SRTKNYQPVQDLRLHQAKL FHPTVPNPSTLLGFPPAEDSWFT CLDLKDAFFPIRLAPERQKLFAF QWEDPESGWPPCWRALAATAL LVQEANKLTLGQKLNKASRA VVTLMNTKGHHWLTNATLTD YQTLLENPRITIEVCNTLHPAT LLPVSKSPVKPGCVEVLDSIDSS RPDLWDQPWASVDWELYLDG SSFFNPQGEVEGASRGDTSELPP CWVCGIPALTQRLKQHLPPSG HQGSLKHLIWDLLLLTKKRTFS
6475	36843	A	6525	3	2640	
6476	36844	A	6526	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTLQG YSNQNSMPGPTPQIPSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVPDPPSSAMM/SR RAHRSRGPDRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQTQHPPEPDAHQPYKH LFQVCAHQGHVPAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
6477	36845	A	6527	1	1860	
6478	36846	A	6528	1	1458	
6479	36847	B	6529	1	1503	

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6480	36848	A	6530	3	515	TISQKRCTLPAILGLISYASSVNI RSNITGWLYIDRYVGSHVILYP LGIRMGVTGEMKGERRRGLHA ATKWLEEHAPADYQNPQEYGR TQLPGTQPQLDPHEREDMQRL NRDREALLEGFKRGAQKATNV NKVSEVIQGKEESPAQFHQRLC EAYRMYTPLDHDSPEHQRMH MALVRQSAEDMRRKLQKQAG LAGMNPSQLLEIASQVFVNRDA VSPKENSKEGGQARRHDDL SPVEPDCVEVLDSIHSSRPDLRD QPWPSGDW/RTICGWEQLLQPP RRERCRVCSNPGH/WLLKPHR CPRPLQARKLNSLLSLGP*NSTR DCVRPIVCILPLITIALKISA
6481	36849	B	6531	96	2524	
6482	36850	B	6532	61	2025	
6483	36851	A	6533	674	2913	
6484	36852	B	6534	120	1849	
6485	36853	A	6535	1	426	
6486	36854	A	6536	2	475	
6487	36855	A	6537	1	501	
6488	36856	A	6538	15	593	SMWWNSAREPCPWRIVDDCGG AFTMGVIGGGVFQAIKGFRNAP VCRLLEAPLFIYSCSRSVPTV NVSSERAESRPTLFMAVSLHMA WCLAHIGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWNSITSGALTGA VLAAARSAPLAM\VGSAAMGGI LL/ALIEGVSILL/TR*TATV
6489	36857	A	6539	2	557	RRFRASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLR\GKEDPWNSITSGALTG AVL\AAR\SGPLAMGGLQQ*WG GILFAPHLRAFGILLTRYTAQ\Q FRNAPPFLEDPA\SQ\LPKDGTPA VTGYP\SYQQYH
6490	36858	A	6540	223	2274	

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6491	36859	A	6541	2795	3762	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPIFNILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6492	36860	A	6542	245	1293	TGAVPIRPSWQRWGKNRTEKL ETLKRRAPLLLQRNAVPHQQQ NKAGWRMILTS*EKKASDDQIT LSYGRTFKPK/DKEVENFEKNL EECITRITNTEKCLKELMELKTK APELREECRSLRSRCDQLEERV SAMEDEMNEMKREGKFREKRI KRNEQSLQEIWDYVKRPNLHLI GVPESDVENGTKLENTLQDIIQ ENFPNLARQANVQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTLKGKPIR LTADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK YFIDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
6493	36861	C	6543	116	283	
6494	36862	A	6544	51	281	KSQNQLLSSKGEYADGQQDQV SIPAPSPYTLSGPQTQSCPVRPE LGL*GASSAVQAPAVRYLTRFL LFVMSNLHSP
6495	36863	B	6545	1	897	
6496	36864	B	6546	91	8030	
6497	36865	A	6547	126	362	



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6498	36866	A	6548	936	2064	ERADCLFKRKTNNQKGHLHRK PICTSPSSKTKSR*NHKDGEKTE QKNWKL*NAERLSSS/IRNAV HQQQNKAGWRMILTS*EKKAS DDQITLSYGRTFKPK/DKEVENF EKNLEECITRITNTEKCLKELME LGTKARELHEECRSLRSRCDQL EERVSAEDEMNEMKREGKFR EKRIKRNEQSLQEIWVYVCRPN LRLIGVPESDVENGTKLENTLQ DIIQENFPNARQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MKEKMLRAAREKGQVTLKGK PIRLTADLSAETLQARREWGPIF NILKEKNFQPKISYPAKLSFISEG EIKYFIDKQMLRDFVTTTRPALK ELLKEELNMERNNRYQPLQNH
6499	36867	A	6549	1	767	MAGAPPPASLPPCSLILDCCASN QRDSVGVGPSEPGVGYSLVVR RFLSRSEKRNIRVGVTFRSSEM NPVPQMEMQKSPSSASLTGA VDRSCSYSAILAPPLGFCFYPLY ENSTLQSAKKRDAELANGALGI IELNNDYTLKKVMKPLITSNTV TDEIERANVFKMNGKWYLFDT SRGSKMTIDGINSNDIYMLGY/D IKLFNRPLQAAEQNRACAANGS *SKRCDIHLLSLRSAASQRQQC GYHKLHDKQRLLRG
6500	36868	B	6550	50	327	
6501	36869	A	6551	333	1301	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWVYVCRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPIFNILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTTRPALKELLKEALN MERNNRYQLLQNHAKF
6502	36870	A	6552	352	2304	
6503	36871	A	6553	1	1617	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6504	36872	A	6554	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQFQPGQQSETVSEK KKKTRKKRKKRKKRKKKKKK KKKKKKKKKKKKKKKKKKKK SE*DRLGKKEEDEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE
6505	36873	A	6555	5	156	RKKGGG/EREEEGEGEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH
6506	36874	A	6556	1	279	
6507	36875	A	6557	3	120	TEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEE\EEEE
6508	36876	A	6558	3	123	
6509	36877	A	6559	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHVRGI
6510	36878	A	6560	1	588	
6511	36879	A	6561	1	204	
6512	36880	A	6562	75	234	
6513	36881	B	6563	100	2510	
6514	36882	A	6564	47	4976	
6515	36883	A	6565	3	4755	SCRCRRRRRGPAAMAQILPVR FQEHFQLQNLGINPANIGFSTLT MESDKFICIREKVGEQAQVTIID MSDPMAPIRRPISAESAIMNPAS KVIALKAGKTLQIFNIEMKSKM KAHTMAEEVIFWKWVSNTV ALVTETAVYHWSMEGDSQPM KMFDRTSLVGCQVIHYRTDE YQKWLLLVGISAQQNRVVG MQLYSVDRKVSQPIEGHAAAF AEFKMEGNAKPATLFCFAVRN PTGGKLHIIIEVGQPAAGNQ
6516	36884	B	6566	47	482	
6517	36885	A	6567	1	555	MNARPHKVD/GRVVEPKRAV* EDSQRPAFVAGIKEDTEEHLR DYFQQYGKMEVIEIMTDRGSG KKRGFAFVTFDNHDSVDKTVV QKYHTANDHNCEGRKALSKQE MASASSSQRGHSSSGNFRGGHG GGFGGNDIFGYGENFSGHGGFS GSCGGGGYGSSGGGYNEFGND GSNTGGGGSYNDFGN
6518	36886	A	6568	1	645	

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6519	36887	A	6569	2	944	GRGLRKLFIGGLSF*FIDESLKS QVGWGTLTDCVVMRDPNTK RSRGFGFVTYAT\VEEVDAAMN ARPHKVDGRVVEPKRAVSRED SQRPGAH/TLVKKIFVGGIKED TEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFA\FVTFDDHDSV DKIVIQKYHTVNGHNCEVRKA LSKQEMASASSSQGRSGSGNF GGGRGGGFGGNDNFGRGGNFS GRGGFGGSRGGGGYGGSGDGY NGFGNDGSNFGGGGSYNDFGN YNNQASNFGPMKGGNFGRSS GPYG\GGGQYF\AKPR\NQGGY GGSSSSSYGSGRRF
6520	36888	A	6570	1	1512	
6521	36889	A	6571	2864	3677	RCQLDHLPCHLCCCCHR/CIPSL RDPQQAPGSTRLSRAPHIESRV GRKPPEEPANPTMNSLTLRDKQ /HDASTC/DWKRAL*VPESGLPR ALLKYIRCPNMSSAQKPRELSK RRN*K*PCVKRTPFRPT*/DLP YSGKKTGVKGLICPVPGTAVK APQRPPGPQPPHAPQSASETA WFPVADRRVFESENPGWTA AKT LGTLS SPQAGAGVGRQDGD GQELTSQEKPPWGRKIPHAV ADKGYRQQCGAGEARGGPVF WAAAPRTSWQQASYT
6522	36890	A	6572	1	666	
6523	36891	A	6573	2926	3304	EYSLGHRHYNWKC*ALGQKDQ VTFATKFAPTSHRTRKQPELWR /QDPGSYGEKQPAWCSVPPGRF SGGLVGLGFLDGGIVVQPLRRP CCQDCVCGFPTLRSSSTKTSTEL GPSFLPCERQGKETISVT
6524	36892	A	6574	1	665	

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6525	36893	A	6575	3	1121	SSTFPRMPWRLVTSWTAYIPEL EGSTSDPDSPAQAQKGEKPVKL GNSLWGSHTPEVPRPGTGPRPL SFVHRLPTMDPHKVNALRAFV KMCKQDLSVLHTKEMHFLRE WVESMGGLSPATQKVKSEEN TKEEKPDSSKVEEDLKADEPSS EESNLLIDNEDVIEPDAPQEM GDENAEITEEMMDQANHKKVA AIEALNDGELQKAIDLFTDAIKL NPQLAILYAKRASVFIKLQKPN AAIRDCDRAVEIY\SAQPYKWR/ GKYEQKREEREIKERIERVKA REEQERAQREEEARGQSV AQY GSFPDGLPGGMLEMRGGMPGK PGITGLNEIFSDPEVLA AVQDPK VMV/AFFQDVAQN PANMSQYQ GNPKVM
6526	36894	A	6576	3	1351	PEAGGERERERAQREEDSTRQS RAQYGSFTGGFPGGMPGNFPG GMPGMGGPSARSRRARLSLE PDRSPPSYAHHLPTMDPRRVNE LRAFEKMCKQDPSVLHTEEMR FL\RECVESMCGKVPPATHKAM SEENTTEEKPDSEKAEEDLQAD EPSSEESDLRKLIEGVIEPDTD APQEMGDENAEIPEE\MMDQA NDKKVAAIEALNDGELQKAIDL FTDAIKLNRLAILYAKRASVF VKLQKPN\AAIRDCDRAIEINPD SAQPYKWRGKAHRL LGHWEE AAHDLALACKLDYDEDASAML KEVQPRAQKIAEHRRKYERKR EEREIKERIERVKKAREEHERA QREEEARRQSGAQYGSFPGGFP GGMPGNFPGGMPGMGGGMPG MAGMPGLNEILSDPEVLAAMQ DPEVMVAFQDVAQN PANMSK YQSNPKVMNLISKLSAKFGGQ
6527	36895	A	6577	2	433	GPPLNLSSPRGGILKTYGCELCG KRFLDSLRLRMHLLAHSAGAK AFVCDQCGAQFSKEDALETHR QTHGTDMAVFCLLCGKRFQA QS\ALQQHMEVHAGVRSYICSE CNRTFPSHTALKRHLRSHTGDH PYECEFCGSCFRDE
6528	36896	A	6578	1	687	
6529	36897	A	6579	2	449	

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6530	36898	A	6580	852	1084	TDAGCYAARQCGTAVPSRDV HIRHQGTPVPQF*TAPLRARS/E VSPARRRARMMLSSSASFASANIT TSSAWSDTLQP
6531	36899	A	6581	1	681	
6532	36900	A	6582	1	483	
6533	36901	A	6583	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
6534	36902	A	6584	1	678	
6535	36903	A	6585	3	634	
6536	36904	A	6586	4	479	CSAKTAIRGVSECLIHGHIPIHS TASDQGTHTAKEVWQWAYA HGIHWSYHVLHHPEEA/GKER WNGLLKSQQLQCQLGDNTLQG* GKVLQQAVYVLN*HPIYGTVSP IARIH/GSRNQG/VETELTPLTITP SDPLAKFLLPVPPTLHSAGLEIL VPEGEIR
6537	36905	A	6587	1	1539	MVGKAKWKPLELPLPRKMVSQ KQYRILGGTAEISVTIKDLKDA RVVIPSTSPFYSPWPVQKIDGS WRMTEDYRKLNQVVTPTAAA VPDVVSLLEQINTSPGTRYAAID LTNAFFSIPFHKAHQKLEAFSW QGQQYTFTVLPWGDINSPALCH NLIRRDPCFSLPQDITLVHHID DIMLTGSREQEVADTRDFLVKD KLLHLAPPTTKKQAQHLVGLF GFWRQHILLGVLLQPIYRVTD KVASFEWSQEQKTALQQVQAA VQAVLPLGPYNPADPMVLEVS VADRDAVCSLWQAPIGESQWR PLGFWSKALPSSADNYSPFERQ LLA/CHKVGHAQQHSISKWK*Y IHDRAQADYHPWTQACLIHCQ GIPHSIASDKDAHFTTKEVWQW THAHEIHWCYHVLHHPEAAAGL TERWNRLLKSQQLRQLGDNTL QGSGKVLQKAMYALNQHPYIG TISPIARIHGSSNQGVVAPLTIT PSDPLAKFLLCVPTTLRSAGLD VLVPEGGMTQQQFH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6538	36906	A	6588	1	566	MGRNQSRKAENSKNWSASSPP KDHSSLPAMEQSWMENDFDEF TEVGFRRSVITNFSSELKEHVLTY CKEAKNVEKRIYRSRNQGM EV KVAPLTITPSDPLANFFASVPAT LHSAGLEVLVPEGGTLP LGDTT MIPLNWKLRLRTGYFGLLLRLS QQA KKGAMVLA/GVVDPDYQ NEISLLLHN*GKTHDH
6539	36907	A	6589	221	357	
6540	36908	C	6590	228	342	
6541	36909	A	6591	745	849	
6542	36910	A	6592	1	240	
6543	36911	A	6593	2	495	FVRLVGRGDCDPLLSVCLTTMP LYEGLGSGG\EKTA VVIDLGEA FTKCGFAGETGPRCIIPSGIKRA GMPKPVRVVQYNINTEELYSYL KEFIHILYFRHL\LVNPRDRRV\V IIES\VLCP S\HFREDTHSCFFFKY FE\VPSVLLA\PS\HLMALLTLGI NSWHGPRL
6544	36912	A	6594	1	579	
6545	36913	A	6595	1	621	
6546	36914	A	6596	1	351	
6547	36915	A	6597	1	447	
6548	36916	A	6598	114	880	
6549	36917	A	6599	1	2625	
6550	36918	A	6600	1	1674	
6551	36919	A	6601	1035	2235	QTHSQYHTEWAKTGSIPFENW HKTGIPSLTTPIQHSV GSSGQGN QAGEGNKGYSIRKRGSQIVPVC RRHD/VYI*KTPLSQPEISLS**A TSAKS/LGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM PFFTELEKTTLKFIWNQKRARIT KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI KDLNVRPKTIKTLEENLGITIQD IGMGKDFMSKTPKAMATKAKI DKWDLIKLSFCTAKETTIRVN RQPTK

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6552	36920	A	6602	369	1917	AGEGKKGYSIRKRGSQIVPVCRRHD/VYI*KTPLSQPKISLS**ATSAKS/LGYKINVQKSQTFLYTNNRQTESQIMSELPFTIASKKIKYLGIQHTRDVKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPKVIYRFNAIPIKLPMTFFTELEKTTSKFIWNQKRARITKSILSQKNKAGGITLPDFKLYYKATVTKTAWYLYQNRDIDQWNRTEPSEMTPHTYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLD PFLTPTKINSRWIKDLNVRPKTIKTLEENLGITIQDIGMGKDFMSKTPKAMATKDKIDKWDLIKLSFCTAKETTIRVNRQPKKWEKIFATYSSDKGLISRIYNELKQIYKKKTNNPIKKWAKDMNRHFSKEDIYAAKKHMKKCSSSLAIEMQIKTTMRYHLTPVRMAIIQKSGNNRCWRGCGEIGTL LHCWWDCCLVQHILTHRWELNNEITWTQEGEYHTLGT VVGW GEGGGIALGDIPNAR
6553	36921	A	6603	1	2781	

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6554	36922	A	6604	1320	2403	LQTLQVYSNQNSMVLVPKQR YRSMEQNRA LRNNATY LQLSD L*QT*EKQAMGKGFP I**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NSKKQSPSP PPKERSSSPATEQSWTENDFDE LREEGFRRSNYPELRREDIQTG KEEIQT TIREYYKHLYANKLEN LEEMDKFLNTYTLPRLNQEEVE SLNRPITGSEIVAVINSLPTKKSP GPDGFTA EFHQRYKVELVPFLL KLFQSIEKEGILPNSFYEASIIIP KPGRDTIKKENFRPISLTNIDAKI LNKILANRIQQHIKKLIHYDQV GFIPGMQDWFNIRKSINVIQHIN RTKVKNHMIISIDAEKAFDKIQ QRFMLKTLNKL AQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRLNIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTVKFIWNQKRACITKSI LSQKNKAGGITLPDFKLYYKST VTKTAWYWYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPF LTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGV DKDFMTKTPKAMATKPKIDKW DLIKLKS FCTAKETTIRAFDELD DVHPHEEIEACRVWQNYGTHP
6555	36923	A	6605	2202	2515	KSLQCEHSSHIQDLPLACLGLR KHYMVAQYL*HSHS/ASGGGSR YDVLKISVSCSSTIDI*LAFVSLG *DKRTS**TNLAESSPNFFHWV WIFLASKKFCSV PAR
6556	36924	A	6606	1934	2077	AIPFRIQAWARTSCPKHKQWQ QKPKLTNGI*FN*RASAQQKKL PSE
6557	36925	B	6607	1	2325	



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6558	36926	A	6608	1524	2877	IRKRGSQIVPVCRRHD/VFV*KT PSSQPKISLS**ATSAKS/LGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASRKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIAKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQCNRTEPSEIMPH IYNYLIFDKPERNKQWGKDSLF NKWCWENWLAICRKLKLDPFLL TPYTKINSRWIKDLNVRPKTIKT LEENLGITIQDIGVGKDFMSKTP KAMATKDKIDKWDLIKLSFC TAKETTIRVNRQPTTWEEKIFAT YSSDKGLISRIYNELKQIYKKKT NNPIKKWAKDMNRHFSKEDIY AAKHHMKKCSSSLAIRERQIKT TMRYHLTPVRMAIHKSGNNR DMDEIGNHHSQ
6559	36927	A	6609	1	2226	
6560	36928	A	6610	1	674	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLIGVPESDVENGTKLE NTLQDIIQEN/CPQSSKAGQRSD SGNTENATKILLEKSNSKTHNC QIHQS
6561	36929	B	6611	1	5175	
6562	36930	A	6612	1666	2032	LQTLQGYSNQNSMVLVLPKQR YRSMEQNRALRNNATYQLSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKH*T*NHKNPRRKP RHYHSGHRHGQGLHV
6563	36931	A	6613	1596	2169	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQAFLYTNN RQTESQIMSELPTIASRKRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF FTELEKTKVHMEPKKCPHHQG NPKPKEQSWRHHTT

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6564	36932	A	6614	1667	3103	AGEGKKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTERQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLQE IKEDTSKWKNVPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMF FTELEKTILKFIWDQKRARIAKS ILRQKNKAGGITLPDFKLYYKA TVTKTAWYWYQNRDIDQCNR TEPSEITPHIYNYLIFDKPEKNK QWGKDSL FNKWCWENWLAIC RKLKLPFLTPYTKINSRWIKD LNIRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATNAKIDK WDLIKLSFRTAKETTIRVNRQ PTKWQKIFATYSSDKGLMSRIY NELKQIYKKKTNNPIKKWAED MNRHFSKEDIYAAKKHMKKCS SSLAIREMQIKTTMRYHLTPVR MAIIKKSGNNRLTLLNNHNNPQ PLISIKEPREKEELNLQV
6565	36933	A	6615	3134	3288	
6566	36934	A	6616	1	2630	
6567	36935	B	6617	877	7936	
6568	36936	A	6618	2	1589	
6569	36937	A	6619	1	240	
6570	36938	A	6620	200	486	
6571	36939	A	6621	1	558	
6572	36940	A	6622	1	3885	

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6573	36941	A	6623	1	2302	KLPVTNRAAHGLCASLGPDFM TFKVPSSWRHSDSICREWFTLA GAPSRDVLLVSAIITVLSVTVV LCGLCHWCQRKLGKRYKNSLE TVGTPDSGRGRSEKKAIVSRP CPPPAKASATHPTCKSPRSQEK VESPGDLDRDFWNNNESTVQQ KWSSYPPEFILNISPYAPYGDP RLSLNGTLLSGAKVAAAAGLA VEREGRLEKPPVPPPGEDAL RSGGAAPSEPGSGGKAGRGRW RTVQSHLAAGKLNLSNFEDSTL STATTLESIPSSTGEPKCQRPT LMRQQSLQQPLSQHQRGRQPS QPTTSQSLGQLQAHMASAPGP NPRA YGRGQARQGTSAGSKYR AAGGRSRSNPGSWDHVVGQIR NRGLDMKSFLTSSRAAKWNF TNSETVPALDLD SA VVLIPWISS KEDTGDSHYGRVAIYHKGLSFS SDGLVYPGAKGREGRMVVLSL VLGLSEQDDFANIPDLQNPQTQ QNQNAQGDKRLPAGGKA VNT APVPGQTPHDESDRTEPRSSV SDLVNSLTSEMLMEDWPPAVF SSGWAIAATAHPASLHSPHIGYSF LAARGGLLLFEADFCWCKRSG STFPDCDGVANLAATEMALSQ LRFKETAMRESLVMLSPGSEE DEAHEGCSRENLGRIQFSVGYN FQESTLTLKIMKAQELPAKDFS GTSDPFVKIYLLPDKKHKLKTK
6574	36942	A	6624	1	576	
6575	36943	A	6625	1	155	
6576	36944	A	6626	4746	5258	DAGAQPSPRYLIYHQPSRFFRI TSTVTPFSKPISLLWLV*/GLHG DILL/RLLQS*RC*CRSHPEYHSG PPGRWQGPSPAPQKCSRTTSRS RSSR*HPPPPRPGGSAPSSPASYS WTPPRTVPGSWARRRRLSLR PSWATQPSWTATLWSQPLWRL KWEDCLSPGRSRLQ
6577	36945	A	6627	1	588	

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6578	36946	A	6628	444	1056	GPLLREPHQLCHFVPVAGFVLDA GLPEAAAAPHDRGPPELAGPQA AGQHPAQVAHQPRAAAQQRQ GRRAREEAGAQAQEEPRGPQE RRRRLAEGLRRCQGHAPAGRDG RGGYRRAAQGPARGGRTPEWQ QSGGARRTPSVGHPRRARAD\W CLTGANDALSCSSPTCGKFLKT VSKVPVCRRGLAVNRKEAEGR SSESPTSSATFQSPALSWMLVS QRLLLPHMIGAQSSPGPKRPGN TLRKWLTSPVRRLLSSGKADGH VKKLAHKHKKSREVRKSADAG SQKSDSDSAATPQDETVEEDTV AQPRGRREGAGRQSGSRAAGP GRRASAIRGGHARTDVGKRN GTRTRKELMPLHGKRKDAAEH DEPTSASRPAGERPELTAAVQ TEYNCSFPS
6579	36947	A	6629	128	1103	
6580	36948	A	6630	1	602	
6581	36949	A	6631	3	1618	
6582	36950	A	6632	1	602	
6583	36951	A	6633	3	1618	
6584	36952	A	6634	1	912	
6585	36953	A	6635	195	396	VLPLHRQI**LLH*SKKHNNHYK GKQQDLR/CSSTVPRRPQGILPII SFSNVPVGSRRLLKAPLVFIGPG

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6586	36954	A	6636	2	1813	FNTPLSTLDRSSRQKVNKDIQD VISALHEAGLIDYRTLHPKSTE YTFFSAPHHTYYKIDHIVGSKA LLSKCKRTEITTNCLSDDRAIKL ELRIKCLTQNYTTTWWLNNLLL SDYWVNNEMKAEIKMFFETNE NKDTMYQNLWDTFKAVCRGK FIAVNAYKRKQERSKIHTLTSQ LKEPEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKISVSRSW FSERINKIDRLIARLMKKKREK NQIDAINKDKGIDITDPTMQTT IREYYKNLYANKLENLEEMDK FLDTYILPRLNQEEVELPNRPIT GSENEAIINSLP/TKKSPGPDEFT AKFYQRYKG/LARAIRQEKERE DTQLGKEEVKLLFAEDMIVYL ENPIVSAQNLLKLNNFNSKVS GYKINVQKSQAFLHTNNRQTESQI MSECPLTIASKRIKYLGIQLTRD VKDLFKENYKPLLNIKEDTN KWKNIPRSWLGRNNIVKMTILP KVI/YKKTTLNFIWNQERARIAK TILSKKNKAGGITLPDFKLYYK ATVTKTARYWTLTIKKGSVWPI SLKSEKRGHRTPLWKLCHND VQGELLKTIQFLFGSPLGHSSLD
6587	36955	A	6637	1	2988	MPPHSEQPHSPSTRQKRKVPLF VRQCPSFVIQAPKAKMDTFDGR KKQFTRFLFLFSMDQLGQGRFS MQTLSFALAVYRKDSPLVACQ VQALGNLEPSSVEAHVSSHGIAI DRKGWHVSLFSIQPGDCFPKAL VEDSPRDRARRQQSSKEEGWC RDRRLKFHSSKGAIAIVVKS KKYESPSFGVCFESLLNPPRLTS RREKTISSSKRCRQCHAEETTV VFWAKESQTGEQTGRGAGQRR MGMIICKACSMPLPAE
6588	36956	B	6638	362	1463	
6589	36957	A	6639	1	1061	
6590	36958	A	6640	1	1581	

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6591	36959	A	6641	46	862	AAFPAPRTLFFLSRPLRPTACAA FRPEFWRLNMKLPARVFFTLGS RLPCGLAPRRFFSYGKILYQN TEALQSKFFSPLQKAMLPNSF QGKVAFITGGGTGLGKGMTTL LSSLGAQCVIASRKMDVLKAT AEQISSQTGNKVHAIQCNVKYP DMVQNTVSELIKVQGH PSTVIT N*STERSSISFLLPTIYA*DWFRF CSTQVLLPKQVWKPMKSLAA EWGKIWNAIQC
6592	36960	A	6642	1	2902	MVKGSLQQEELTILNIYAPNTE APRFIKQVLRDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKINKD TQELNSALYQADLIDYGT LHP KST EYTF F\ SAPHHTYSQN WTT IVGSKALLSEHKRTEIIT\ NYLSD \ HSA\ KLELRIKKLTQ\ NRSATW KLNNLLNDYWVHNDMKAEI KMFFETK\ ENK\ DTTYQNL\ WDT FKAVCRGKFIAK\ NAHNRKQE\ RSKIDTLTSQLKELEKKEQTYL KASRRQEIT
6593	36961	A	6643	1	5127	
6594	36962	B	6644	1	3570	
6595	36963	A	6645	1	3663	
6596	36964	B	6646	143	3122	
6597	36965	A	6647	1	3235	
6598	36966	A	6648	1	3249	
6599	36967	A	6649	1	3297	

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6600	36968	A	6650	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPTGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKSGNN
6601	36969	A	6651	1	3402	
6602	36970	A	6652	1	3288	
6603	36971	A	6653	1	3168	
6604	36972	A	6654	1	3516	
6605	36973	A	6655	1	3693	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6606	36974	A	6656	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRJNIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPSGDVGLEADFSPSH TLKTQFFSCLAEEFAAASCFFQR MNGFGMAMTTTSTGAAESPL PSCSIDQGGDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWLRPTSHLPPCSSSSAWW TEQTDAPHLLFLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
6607	36975	A	6657	1	3514	MELKTKARELREECRSLRSRCD QLEERVSA MEDEM NEMKREG KFREKRIKRNEQSLQEIW DYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEITNYL SDHSAIKLELRIKNLT KSRSTTW KLNNLL LNDYW
6608	36976	A	6658	3	3316	
6609	36977	A	6659	1	4794	
6610	36978	A	6660	1	3570	
6611	36979	B	6661	1	3384	
6612	36980	A	6662	1	3429	
6613	36981	A	6663	1	3780	
6614	36982	A	6664	1	3894	



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6615	36983	A	6665	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLIH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHIS AIKLELRRIKNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEOTHKASRRQE ITKIRAELEKETQ
6616	36984	B	6666	1	3145	
6617	36985	A	6667	1	4398	
6618	36986	A	6668	523	3852	
6619	36987	A	6669	1	3934	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELR EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSADEDEMNEKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
6620	36988	B	6670	1	5215	
6621	36989	A	6671	1	7171	
6622	36990	A	6672	3	493	
6623	36991	A	6673	1	729	
6624	36992	A	6674	3	800	
6625	36993	A	6675	1	327	
6626	36994	A	6676	2	462	KSSWLEEDDDPVVARVNRRMQ HITGLTVKTAELLQVANYGVG GQYEPHFDFSRRPFDSGLKTEG NRLATFLNYMSDVEAGGATVF PDLGAAIWPKKGTA VFWYNLL RTGEGDYR\TRHAACPVLVGCK WVSNKW\FHES\GQEF\LRPCGST EVD

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6627	36995	A	6677	3	717	RHRLRNRLKDVGGGEAFYPLLE DDQSNLPHSNSNNELSAATLP LIIREKDTEYQLNRIILFDRLLKA YPYKKNQIWREARVDIPPLIRG LTWAALLGVEGAIHAKYDAID KDTPIPTDRT/QLKWDIPRCHSV R*TVIHAPEGHAKFRRVLK\AW VVSHPDLVYWQGLDSLCAFL YLNFNNEALVYACMSAFIPKYL YNFFLKDN SHVIQEYLT VFSQM IAFHDPELSNHLNEIGFIPD
6628	36996	A	6678	1	508	
6629	36997	A	6679	1	888	
6630	36998	A	6680	2	584	
6631	36999	A	6681	2	152	QVAKGMDALLQHLEDCGYR/S SKKKAQICRQQVTKWGDGSAL MGTSTTASL
6632	37000	A	6682	733	894	
6633	37001	B	6683	1	1626	
6634	37002	A	6684	1	1971	MAQVWANDNPPGLAVNQAPV LIDVKPGAQPIRQKQYPVPREA LKGIPGTDYQPVQDLRLVN QATVTLHPTVPNPYTLGLLLA EDSWFTCLDLKDAFFSIRLAPES QKLFAFQWEDPQSDLGICILLY VDDLLLGHSTAVECAKGMVDL LQHLEDCRYKMSKKKAHICRQ QVRYLGFTIRKERSIWEREKM AVGVLTQTVPWPWPVAYLSK QLD/EVSKGWPLCLRTLAATAL LAQEADKLT LGQNLNIKAPHA VVTLMTTEGHHWLTNARLTKY QSLPCENPHITIEVCNTLNPTTL LPVSESPGEHNCVEVLDSVYSS RPDLRDQPWASSVDWELYMD GSSFINSQGERCAGYAVVTLDA VIKAKLWLQGTSAQKAELIALT RAVELSEGQESLEELLGRYFYV SHLPFAFAKAVAQLCITCRQHNA RQSPTVSPHIQAYGAAPFEDLQ VDFTEMPKCGGNKYLLVLTCT YSGWVEAYPTRTEKPYKKGKN DPSCCTKGQCNPLELVITNPLNP HWKKGERVTLGIDRARLDPRV NILVRGGEVYERSPEPVFQTFY DELNPVPVEIPGKTRNLFLQLA ECVAQPLNVTSCYVCGGTVTG YQWPWKARELVPVDPVPDEFLL AQKNYPDNFVWLKPSITGQYCI
6635	37003	A	6685	1	1461	
6636	37004	A	6686	1	1005	

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6637	37005	A	6687	1	174	
6638	37006	A	6688	519	588	
6639	37007	A	6689	2	4527	GRAGLGWSSGGRGSRACSEGP AEARGREGDKGSAALSPPLPLT LGEEMAAERGARRLLSTPSFWL YCLLLLGRRAPGAAAARSGSAP QSPGASIRTFYFLVEPVDL SVRGSSVILNCSAYSESPKIEW KKDGTFLNLVSDRRQLLPDGS LFISNVVHSHKNKPDEGYQCV ATVESLGTIISRTAKLIVAGLPR FTSQPEPSSVYAGNNAILNCEV NADLVPFVRWEQNRQPLLLDD RVIKLPSGMLVI
6640	37008	A	6690	1	879	
6641	37009	A	6691	407	594	
6642	37010	A	6692	1	3621	
6643	37011	B	6693	1	609	
6644	37012	B	6694	1335	1599	
6645	37013	A	6695	1	354	
6646	37014	A	6696	181	683	SRYFILLRKPTFPAMALLPVLFL VTVLLPSLPAEGKDPAFTALLT TQLQVQREIVNKHNLKAVSP PASNMLKMEWSREVTNAQR WANK/CTLQHSDPEDRKTSTRC GENLYMSSDPTSWSIAQSWY DEILDFVYGVGPKS/PQYCPAG NNMNRKNTPYQQGTCPG
6647	37015	A	6697	199	969	
6648	37016	A	6698	1	564	
6649	37017	A	6699	153	427	
6650	37018	A	6700	1	978	
6651	37019	A	6701	3	419	
6652	37020	A	6702	9	255	VRAPAQGPDLAGRRRCGSGA SCTPSRGPASWSRSAAQVPRS SRWRAGSASS*/N/GRQPAPPTSQ PPRAQPFAPPGPWPLS
6653	37021	B	6703	96	283	
6654	37022	A	6704	172	365	PTYHLYPCHFWYQHRTRRIPRK SERLFPTPPQLSWKGTWDY*I CLLCNDSEGRDFLVLRVLK
6655	37023	A	6705	3	1171	
6656	37024	A	6706	2	740	
6657	37025	A	6707	256	461	
6658	37026	A	6708	1	414	
6659	37027	A	6709	1330	1386	YIDSILPK*NHDTLQSYCRYMH SRQRAAS*PLSTGKLQCLGLD LVLC

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6660	37028	A	6710	207	1173	GGDRDRMTANHESYLLMASTQ NDMEDWVKSIRRVIGDLSGGG IFGQKLEDTVRYEKRYGNRLAP MLVEQCVD FIRQRGLKEEGLFR LPGQANLVKIELQDAFDCGEKP SFDSNTDVHTVASLLKLYLREL PEPVIPYAKYEDFLSCAKLLSKE EEAGVKELAKQVKSLPVVNYN LLKYICRFLDEVQSYSGVNKMS VQNLATVFGPNILRPKVEDPLTI MEGTVVVQQLMSVMISKHDCL FPKDAELQSKPQDGVSNNEIQ KKATMGQLQNKENNNTKDSPTS RQCSWDKSESP/TEKQHEQWIP HSSIRQQNQPKQEQWSQAI
6661	37029	A	6711	173	881	
6662	37030	A	6712	1605	1844	
6663	37031	B	6713	123	699	
6664	37032	A	6714	1	462	
6665	37033	A	6715	1	2607	
6666	37034	A	6716	1	918	
6667	37035	A	6717	1	549	
6668	37036	A	6718	1	687	
6669	37037	A	6719	1	258	
6670	37038	A	6720	90	1621	HGLDLRTMNRSRQVTCVAWV RCGVAKETPDKVELSKGGVKKR LIAEAEKLEEGGGSDEEKTG SPLEEG\MQSARTQARP\REPLE\ DGDPE\DRTLDDDELA EYDLD KYDEEGDPDAETLG\ESLLGLT VYGSNDQDPYVTLKDTEQYER EDFLIKPSDNLIVCGRAEQDQC NLEVHVYNQEEDSFYVHHIDILL SAYPLSVEWLNFDPSDDSTGN YIAVGNMTPVIEVWDLDIVDSL EPVFTLGSKLSKKKKKKKGKSS SAEGHTDAVLDLSWNKLIRNV LASASADNTVILWDMSLGKPA ASLAVHTDKVQTLQFHPFEAQT LISGSYDKSVALYDCRSPDESH RMWRFSGQIERVTWNHFSpch FLASTDDGFVYNLDARSDKPIF TLNAHNDEISGLDLSSQIKGCL VTASADKYVKIWDILGDRPSLV HSRDMKMGVLFCSGCCPDLPFI YAFGGQKEGLRVWDISTVSSV NEAFGRRLVLGSAARNSSISGP FGSRSSDTPMES
6671	37039	A	6721	1	549	

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6672	37040	A	6722	1	1318	AKQQNLNRTHMADENKNEYA AQLQNFNGEQHKHFYVVIPQIY KQLQEMDERRTIKLSECYRGFA DSERKVIPIISKCLEGMILAAKS VDERRDSQMVDVSFKSGFEPPG DFPFEDYSQHIYRTISDGTISAS KQESGKMDAKTTVGKAKGKL WLFGKKPKPQSPPLTPTSLFTSS TPNGSQFLTFSIEPVHYCMNEIK TGKPRIPSRSLKRGWSVKMG/ AALEDFSHLPPEQRRKKLQQR DELNRELQKESDQKDALNKM DVYEKNPQMGPGLQPKLAE TMNNIDRLRMEIHKNEAWLSE VEGKTGGRGDRRHSSDINHLVT QGRESPEGSYTDDANQEVRGPP QQHGHNEFDDEFEDDDPLPAI GHCKAIYPFDGHNEGTAMKE GEVLYIIIEEDKGDGWTRARRQ NGEEGYVPTSYIDVTLEKNSKG
6673	37041	A	6723	1	741	
6674	37042	A	6724	1	1063	MPFYISDLSICGDRILRALCPQD LPTYSLHSRGKMRASCSRKFLD NNSSRLVSCNMGALISIWGTTT PPLHATILDSQPTVHPPLAKDCL PCGLQASASDLRARALQRLCQ QLPWVGSQPHTRSPSPQRGGKT GLFAGLASSVSMRPASPPSPAA DSCSACRFFARRPPLRVTVWVKP SSALALCVSISDSIPGNLALPA ETRAQLHHAELASLSQPPLQLRP FPKTSQAGDLQDLGPYVCVRK AVGKGDKQIRAVVKEHSVRSQ ERIWHPGITTANMPGHLGQNT ESGRDKLPMFGVWFPGCRFWG LWVWRLP*LKLAAPCRPSRSLR SSPISRRASTTRCLTVSGCPAAP
6675	37043	A	6725	25	573	
6676	37044	A	6726	1	483	

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6677	37045	A	6727	1	996	MVGKAKWKPIELPLLRKIVNQ KQYHIPGGVAKISATIKDLKDV GVVIPTTSPFNSPIWPVQKTDGS WRKWLS*QGGQFT/FTVLPHG YINSLALCHNLIRRDLDHFSLPQ DITLVHYIDDIVLTGSSEQEVAN TLDLLTSLDWALVETECLTMG HQVTMQPELTMNWALSDPSN YKVGCAQQHSIIKWKWYIRDQ ARAGTTCKWTAAALQPLSRTS LKDSGERKSSQWAE LRAVHLI MHFAWKEK WPDVQLYTD SWA VANGSAGWSGTWKNHDWKIA TTVIAQWAHEQSSHGSRNGGY TWAQQHGLPLTKADVATATDE CPICQQQRPTLSP
6678	37046	A	6728	2	1380	CLAGLFGFWSPCIPHLGVLLQSI YLVTQKAA/SSEWGPEQEKALQ EVQAAVQAALILEPYDPAGPVV LEVSLADRDVWSLWQAPIGE SQQRPLGFWSKALPSSA/DHKA CHAQQHSIIKWKWYIHDRARA GPEGTNSSARYAATM*KWTAS ALQPLSRKSLKDSSEGKSSQWA ELRAVHLAVHVAWKEK WPDV RLD TDSWAVANGLARWSGTW KEHDRKIGDKEVWGRGTRIELS EWSKTVTIFVSH/VLLPRLPSIRG LTECLIHQHGIPHSIASDQGTHF TAKELQQWAHAHGIHWSYHVP HHPG\WGKVLQKAVYALNQR IYEWKEESCLHTGVADALRGN WAEGRHREKALWLGLWSTWS QHPLRSLKTTRHHPGLGVLS ICEAGGATEELSRASGFATGYG KRKEDTKKKHKQHSVSDIIEQQH SLGLTEKTVKGTPTQGISM RPG LYHKATEFQE
6679	37047	A	6729	1	2229	
6680	37048	A	6730	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPDGP KHHCG PPVKVGAYGGQVINGVLA\HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLL EQINT SPGTWYAAIDLANA FFSIPVHK AQKQQA FSWQ GQQYTFTVLP QWYINSPAL CHNLIRRDLCFS LPLDITLV HYIDIMLIGSSEQE VANTLDL FVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLPPTTKKEAQ

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6681	37049	A	6731	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLAQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWKWYVH DWARAGPEGT
6682	37050	A	6732	3	266	
6683	37051	A	6733	3	582	
6684	37052	A	6734	3	403	
6685	37053	A	6735	1	2712	
6686	37054	A	6736	875	1506	LSIYLVLTQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQHSIIKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLD TDSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6687	37055	A	6737	1	633	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFALCHNLIRRELDFFLL QDITLVHYIDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPWEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
6688	37056	A	6738	2	1103	DLWPFTRVTLHRGKRNDQTFQ GLLDTGSELMLIPEDTKHHCGP PVKVEAYGGQVINGVLAQIQLT VGPVGS GTHPVVIYPVPECIIGI GILSSWQNPHIGSLTSRKT DGS WRMTVHYHKL NQMVTPIAAAI PDVVSLLAQVNTSPGSWYAAID LANAFFIPVHKAHQKQFAFSW QQQQYTFTVLPQWYINSPALCH NLIRRDLD CFSPLDITLVHYID DIMLIGSSEQEVANTLDLFVRH LRARGWEINPTKI QGPSTSVKFL GFQWCGACQAIPSKMRDKLLH LVPPTTKKEAQCLAQLLACY/W ALVETEHLTISHQVTMRPELP MNWVLFDPSSHKVGCAQQHSII KWKWYVHDWARAGPEGT

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6689	37057	A	6739	1	2058	
6690	37058	A	6740	2	1173	WEVRQYTFTVVPQGHINSLVLC HDVVRDLGHHFLLPQDITLVHY IDDIMLIGSTPPITKKKAQHLVG LFGFWRQLVPHLGVLLWPIYQ VTQQAASFEGWPEKEKALQQV QAAVQAALPLGPYDPADPMVL EVSVADRDVWSLWQDPIGES QWRSLGFWSKALPSSADNYSFP ERQLLACYWVLVETERLAQWV TPAEEDFNNQVDRMTHSVDTT QPLSPATHVITQWAHEQSGHG GRDGGYTRVQQHGLPLTKADL ATAGKVFQKAV*ALN*HSIYGT LSLIARIHRSRNQGVVEVAPLT ISPSDPPAKFLLPVPTLRSAGLE FLVPEEGMLPSGDTTVPLNWKL RLPPGHFGLLPLHQQANKGVT VLVGVTDLDYQDEISLLPHNG
6691	37059	A	6741	823	2487	KELKLWKNRHKLLSYPTVGAA VTQLQNLTA MG VIGSHGARGQ VVALNRQRQGDLPFTRVTVH WGKG/NMQIFGGLDGTSELTL IPGDPKHHC GPPVKVGA FGG\Q VINGALARVQLIVGPVGPWAHP VVISPVPECIDIDILSSWQNPHIS SLTGRVRAIMVGKAKWKSLEL PLPRKIVNQKQYHIPGGIVEISA TIKDLKDAGEVIPIPTTFPLNSPI WPVRKTDGCWRMTVDYCELN QVVTPTAATVPDVVSLLEQINT SPGTWYADIDLANAVFSIPVHK AHQKQFAFSWQQGQYTFTVLP QEYINSLGLCHNLIQRDLDFSL LQDITLVHYIEDIMLIGSTEQEIA NTLDLLFMAKEVWQWAHAHG IHWSYHVSHHPEAAGLIEWWK GLLKLQLQCQLGDNTLEGWGK VLQKTVYALNQHPHYGTVSPIA RIHRSRNKGVEVAPFTITPSDPL PQFLLPV PATLCSAGLEVLAPE GGTLPPGDRTTIPLNWKRLPP EDFGLLPSLSQQA KKGVTVL AG VIHPDYQDEISLLLHNGCKEDL
6692	37060	A	6742	3	350	
6693	37061	A	6743	1	3339	
6694	37062	A	6744	1	2271	



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6695	37063	A	6745	3	1377	AHLAADDFFCTK*GWVSGLPQG LDKLTLPGANLEMQPENLKED LVYLKKNHEELSMAIKRNESM AKGLQRALLQQQPEDDSKCFP RPQDLIRLYDIHLQLTLEDREGK GLSFSFACVDKDVSVKMDTVP GVNLSCILNEMRDQDKKLVEK SCKDAQGWFFSLKALLEGSLVE TEVCYRTQLAQLQGLIRSMEEQ LCELCCDAEHQDHEHQVLLDV KTQLEQEIATYSRLLEVEDAQL ATQYSLSLASQPTREDLEKAIL KFIWNQNRAQIAKTILSKKSKA RGIMLPSPFKIYYKTTVTKTAWC WYKNRHIDQWNRIENPEIRPHT YNHVIFDKPDKRKQWGKDSLF NKWCWENWLAICSKLTLDPFL NPYTKVNSRWIKDLNLQPKTIK ILKENLGNAIQDTGKGKDFMTK MPKAIATKAKIDKWDLIKLKSF CTALRNYQQSKPTTYRMGENF
6696	37064	A	6746	1	882	
6697	37065	A	6747	13	1402	STGSTHACDLLFSPSPVCLPPAA ATMTTSIR\QFTSSSIKGSGL GGG\SSRTSCLSGGLG\AGSCR LGSAGGLGSTLGG\SSYSSCYSF GSGGGYGSSFGGVDGLLA\GGE KA\TMQNL\NDRLGSYLDKVP PWKEANTELEVK\RDVTRGR APGPARDYSQYYRTIEELQNKI LTATVDNANILLQIDNARLAAD DFRTKFETEALRLSVEADING LRRVDELTLARADLEMQIENL KEELAYLKKNHEEEMNALRGQ VGGEINVEMDAAPGVDLRILN EMRDQYEKMAEKNRKAEDW FFSKTEELNREVATNSELVQSG KSEISELRRTMQALEIELQSLS MKASLEGNLAETENRYCVQLS QIQGLIGSVEEQLAQLRCMEQ QNQEYKILLDVKTRLEQEIATY RRLLEGEDAHLTQYKKEPVTT QVRTIVEEVQDGKVISSREQVH
6698	37066	A	6748	2	452	FLLPSSFCTHSLLSPTITIVPGP DFNLASHIIPDTTPDPHDCISMIH LTFTFPFHISFFPVPHPDHA*FID GSSTRPNRHTPAKAGYAIAQAT IPPLRTSHFLSIVEIYPQGNFNSV FHVLFYYSSGHIQAPSLPYTLRR DRRPGTSRA
6699	37067	A	6749	1	1791	

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6700	37068	A	6750	1	219	
6701	37069	A	6751	2	528	TLTVESKSIKAYKLSLQFPHFTC PKTGHALQVSSGFVESPTVTIVP GLDINLASHTIPDNTPEPHDCIS LIHLTFTFPFPHVSFFPVPHPDHT WFIDGSSTRPNCHSPAKTGyai VSSTLIIDATALPPSTTSQQAELI ALTRALTAKGLPINIHTDSKY AFHILHHHAVI*AER
6702	37070	B	6752	1	1744	
6703	37071	A	6753	1	1376	MCKRMPGLQASQTVCPFYDKN YLDLKRKGTEIKRRERLKC GTK IERRKRLRDSERLEKRIKRGCLP DLKLSTEIQINRLRGLYTLLRKE RRFGLQETINYAEVTGIYVKELI EDREHLNSGKYIFNIFDIKVPRV VFGIIDPYMLWEKKEGTKEGIK EGMKRESQKRIKWERSFITFIAL NTADRTLMSSAGCYRKQVKIHI DALPPNSQTLKKRGGASLIISF RRQSGPSAAGLWEFARGPFQTL FAWLSPAEEAEQRLLPASSAE SFIAEGDPPDAGQSSPSSLHAA AATALMLLEALKITNYAQLTLY SSPNFQNLFSSSLTHILSADWL LQLYSLFVESPTITIVPGPDFNPA FHFIPDTPDPHDCISLIHLTFTP FPHISFFPVPHPDHTWFIDGSST RPNRHTPAKAGYA/DGRNTSYC VLSVPVGN SPLVPNPGSARCTEG GLLYARA
6704	37072	B	6754	400	820	
6705	37073	B	6755	1	1190	
6706	37074	A	6756	1	1002	
6707	37075	B	6757	1	3216	
6708	37076	A	6758	1	4020	
6709	37077	A	6759	1	1155	
6710	37078	A	6760	2	346	SSYLMHILSAPNLLQLYSLFVES PTITIVPGPDFNLASHIILDTPD PHDYLSDPPIHS/TFP/DISFFPV PHPGHTWFNDGSSTRPNRHSPA KAGHAIVFSTSHIETALPPSTT
6711	37079	A	6761	189	1201	
6712	37080	A	6762	1	231	
6713	37081	A	6763	1	834	
6714	37082	A	6764	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
6715	37083	A	6765	21	706	
6716	37084	A	6766	1	158	

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6717	37085	C	6767	78	401	
6718	37086	A	6768	536	694	
6719	37087	C	6769	1	1410	
6720	37088	B	6770	1	1836	
6721	37089	A	6771	306	487	VGFLGILF/CFEAIVNVSSLMIW LSVCLLSVYKNACDFCTLILYP ETLLKLLISSSSLYLW
6722	37090	A	6772	714	1096	FFLPMSMECSSICLYPL/CISLRS GL*FSLKRSFTSLVSWIPRYFILC KSQGMRWLGLGSEA*YSCLLIL IRKITQNSVEVLGRRKFLGGGM EREWVMFLRAASSGIRGSGVT NFKSES RHQISCASV
6723	37091	C	6773	1	2796	
6724	37092	A	6774	126	490	FFLPMSMECSSICLYPLLPFGAV VCSSP*RGPSHPL*VGFLGILF/C FEAIGNGSSLMIWLSVCLLLVY KNACDFCTLILYPETLLKLLISL RRFWAETMGFSRYIIMSSANRD NLTSSFPN
6725	37093	A	6775	1	550	
6726	37094	A	6776	578	865	MCPRDYGMLCLCSH\CFKEHLY FCLHFVMYPVVIQEQVVQFPCS *AVLSEFLNPEF*FDCTVV*ETV CYNF*SFTFAEKSFTSNSVNVFG IGVVWC
6727	37095	A	6777	1	2091	
6728	37096	C	6778	1	1458	
6729	37097	B	6779	1	504	
6730	37098	A	6780	70	511	NHASPGIRNLFHLPRGLRAITIA VFCKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRVNN YDIIA*ATVSMASRSIRCGSVGS LPSSNLPINSVSIRCRARQEGIM SSPGQQVGFI
6731	37099	A	6781	3	306	
6732	37100	A	6782	1	3567	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
6733	37101	A	6783	386	550	
6734	37102	A	6784	1	594	

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6735	37103	A	6785	1	1324	MGKKQSRKTGNSKRQASPPP KERSSSPAMEQSWMENDFDEL REEGFRRTNYSELQEGIQTKGK EVKNFEKNLDECITRITNTEKCL KELMELKAKARELREECRLRS RCDQLEERHHTTPIPKLTITYLE VKLSPANVKEQVITNCLSDHSA IKLELRIKKPTQNPSTTWKLNN LLNDYWVNKEMKSEIKMFFE TNENKNTTYQNLWDAFKAVCR GKFIALNAHKGKQERSKIDTLT SQLRELEKQEQTSHKVSRRQEI TKIRAEPKEIETQKTLQKINESR SWFFERINKIDRRRLARIKKRE KNQRDAIKNDEGDITDPTEIQT TIREYYKHL YANKLENLKEMD KFLNTYTLPRLNQEEAESLNRPI AGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEKL VFGAGYFGM WALAALPSNLLKLSQLCQAAA EVNVLVQFVCIC*SCLNSVRRQ
6736	37104	C	6786	1	1719	
6737	37105	B	6787	1	1098	
6738	37106	C	6788	1	1782	
6739	37107	A	6789	3095	3217	CRCLQMAM*WS*AIALSMKIS MSPRKPEV*IKVLGLCCL
6740	37108	A	6790	1	5364	
6741	37109	C	6791	1	2505	
6742	37110	A	6792	37	1214	KLLQDLPSINSSAVEKISMSTT GQVIRCKAAILWKPGAPFSIEEV EVAPPKAKEVRIKV VATGLCGT EMKVLGSKHLDLLYPTILGHEG AGIVESIGEGVSTVKPGDKVITL FLPQCGECTSCLNSEGNFCIQFK QSKTQLMSDGTSRFTCKGKSIY HFGNTSTFCEYTVIKEISVAKID AVAPLEKVCLISCGFSTGFGAAI NTAKVTPGSTCAVFLGLGVGL SVVMGCKAAGAARD/IIGVDVQ QGRKF*GRAQELGATEC\LNPIQ ALKKPHFKEVLFDMTDAGIDFC FEAIGNLDVLAALASCNESYG VCVVVGVLPAVQLKISGQLFF SGRSLKGSVFGGWKSRQHPIKL VADYMAEKLNDPLITHLNL DKINEAVELMKTGKW
6743	37111	B	6793	1	2280	
6744	37112	A	6794	1498	1764	LVYLKVMGRMEPSWKTLCRIL SRRTSANLSKAGQCSDSGNTEN TTKILLKKSNSKTHNCQIHQS*N EGKNVKGSQRERSGYPRGRPS

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6745	37113	A	6795	3	640	
6746	37114	A	6796	1	996	
6747	37115	A	6797	1	933	
6748	37116	A	6798	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTLKKNYLSFLVYISRN. *NRVKAIM/VGKAEWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFEWSPEQEKALQQVQAVV QAALPLGPYPADPVLLEMSV ADRDVWILWQAPISESQRPP GFWKALPSSADNYSPIFERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFDLSSPKMCHPQQ
6749	37117	A	6799	1	229	
6750	37118	A	6800	1	1011	MVSTPATLPSLPKPAIMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEGKSSQWAEQAVALV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAEFEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQRPPLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLIH CYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
6751	37119	A	6801	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRA WFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVALVHVS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPKIFG SHVSAHQWVISAEEFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
6752	37120	A	6802	1	354	
6753	37121	A	6803	3	592	

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6754	37122	A	6804	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVSVADKDAVWI FHLSGSDRWRRTYRCL
6755	37123	A	6805	1	636	MEFNDSMHNTFDHIWRTKEYD EAGWLLSSLDKAMKENDEL DSNSQIQKQILSLQSSKILNLTE GTVVTQLQNLNSVGIIGSQGGR GQVAALSLQRQGASFEWSPEQ EKALQQVQTAVQAALPLGPYD PSDPMVFEVSVADGNAVWSLW QAPIGELQWRTLEFWSKALPSS ADNYSFGRQLLACYWALVET EHLTVDHQVT/M*PELPIM
6756	37124	A	6806	1	672	
6757	37125	A	6807	308	470	
6758	37126	A	6808	1	1908	
6759	37127	A	6809	1	1218	MGIIGSRGGRGQVAALKRQRQ VTKKAASFEWGPEEEKALQQV QAAVQAALPLGPYDPADPIVLE VSVADRGAVWSLWQVPIGESQ QRPLGFWSKALPSSADNDSPFE RQLLACYCALVETERLDMGHQ VTMRPEVLIINCVLSDPSSH/QG WRLCMDSATWTSTYQ/A*PGY GHC*VPNLPAETNTDPSIWHH S/YG*LASYLVIG*LHWTSSIME GAEVCPhWNRHLLRI*VCLSCT QCFCEd/SHPWIHE/ASYLPSWH ST*HCL*SRHSPYS*RSVAVGSC SWNSLVLPSPSS*SSWINRMV EWPFEVTITMPTR*QYSAGLGK SSSEGVCSESASNIWYCFRSRQ DSWVQESRGGSGSGTIHHHF** PTSKIFASCFLDIMFCWT*GCS/S *WRNAATTRHNNFI
6760	37128	A	6810	901	1142	GPEDLQGLFILSFQDPLL/SHPV CLEALAPFPSPVVPISFPFPHVA GEFWLYPSGAA/RASSDAQSWT VIAVSPLRGLNSWG
6761	37129	B	6811	1	1452	
6762	37130	A	6812	122	1838	
6763	37131	A	6813	101	249	MTHVTALRTSSNLMRN*RKVG EAKSQQEH*S*QACHLKSRMSS SRLWIN
6764	37132	A	6814	1	1074	
6765	37133	A	6815	310	397	LTIWQDSNPGSCL*GCSVCAHA /CVGGQHMVCF*PSYSLYLKSE PKEGTGRNKDPDLNSQNRKGF LEQIHfQ
6766	37134	A	6816	1	583	

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6767	37135	A	6817	1	486	
6768	37136	A	6818	2	1001	
6769	37137	A	6819	1	2307	
6770	37138	A	6820	3	393	
6771	37139	A	6821	1	1776	
6772	37140	A	6822	1	1140	
6773	37141	A	6823	1	558	
6774	37142	A	6824	2	798	PRVRIFFSITWYSLRVLTEISLW GGLILVVIITIQYDMTRTRNKYL HTNSLVALANMSAQFR\SLHQY AA\QRIIRLFSLLSKHKNKVLEQ ATQSLRGSLSNDVPLPDYAQD LNVIEEVIRMMML\EHNSCL\TNS LHHNPNLGITPWLLQVRRSLWN NFR\THPSFQGINGKILIWVIF/LS /SRLQGLAGKLGAELSERVLEI IKQGVRLSLPKDRLKKFPELKFK YVEEEQPEEFFIPYVWSLVYNF SSRPVLGIPQDIPAVSPWVSD
6775	37143	A	6825	3	206	PSASRPWAHPALHPSPVPARG WQPPTGLHPLREQRGLGQHM* QSSGQQPQGGVGPESHFPAL WAQL
6776	37144	A	6826	200	601	EMGSCDQWQRPCVPWEAVVM PRDP/LKMALAVVWPKMKAPR VTKRTP*LTSTHQLAGLTSSISE SLA*MRHSPGKTKMKQAARPP MTEITLPMMSGMKS/VQQQGEQE PDQRLQHSPPLPPHVLLHWHP LVAQPQA
6777	37145	B	6827	25	1407	
6778	37146	A	6828	1786	1795	HC*LNALPSGETWGQKRGLPG TQLPLPL/VPLRAPKGRSPKGSK GPTHHTWALSSFSLTSPQVTVG TEDQATSASGRPWLRIGHTPGG GRVWAGRDSIRGVPALTVLHV LSSLGRETP*RPCLRGPTAPAGP KRAPGKWLPWSQAPPCGCCPR *LSHVL*DRNRCAW*KGGGRG L/LRAPTPVPELAPHPCGPAPTL SKPLSSPNMPAQGLTQE*PGSV ANLPPYGPALLCLGRREWDER GQVG*VPTESEME*RRTEPLKT PGDCSAAASKIPSFFSNRTFPPL CPHKNKLKGT
6779	37147	A	6829	1	311	
6780	37148	A	6830	1	402	
6781	37149	A	6831	1	750	
6782	37150	C	6832	130	450	

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6783	37151	A	6833	1	875	MRLRLRLKLVQEHVELYQKYS NNSWRYLSNRLAPSDSPEWLS FDVTGVVRQW/VWSRGGEIEGF RLSA\HCSCDSRDNTLQVDINGF TTGRRGDLATIHGMNRPFLIFM ATPLERAQHLQSSRHRAI.DTK YCFS\STEKNCCVRQLYIDFRKD LGWK\WIHE\PKGYHANFCLGP CPYIWSLDTQYSKVLALYNQH NPGASAAPCCVPQALEPLPIVY YVGRKPKVEQLSNMIVRSCKC NLGPAPPRPAPAGPAPPRPAPV ALPMGAVFKDTRAPSPPGAPLK MERGKKKKKK
6784	37152	B	6834	162	635	
6785	37153	A	6835	2	1846	
6786	37154	A	6836	322	2104	
6787	37155	A	6837	1	352	
6788	37156	B	6838	92	1774	
6789	37157	A	6839	260	1016	
6790	37158	A	6840	479	1937	DVEHVGKMRRRWRRRVVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHCGPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VVIFPVPECIIGIDMLSSRQNPHT GSLTGRVWTIMVRKAKWKPLE LPLPRKIVNQKQYHIPEGIVEIS ATIKDLKDAGVVIPTTSPFNSPI WPVQKTDGSRMTVGYCKLN QVVTPIAAA VPDVVSLEQINT PPGTWYAAIDLANDF
6791	37159	B	6841	20	26	
6792	37160	B	6842	2	207	
6793	37161	B	6843	187	405	
6794	37162	A	6844	451	770	LFLFLLSSHPRSSASWYRHRH PHHPAARLPVADSASSSSSPSS SSPSPSSSSSSSPSSSSFVYPHC QPPAPHFPH*HSR*QGRLFHFLP LPQLPSSPLSPWW
6795	37163	A	6845	1	417	
6796	37164	A	6846	191	314	
6797	37165	A	6847	129	212	



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6798	37166	A	6848	1	192	CALNAGL/IGENEAKKRRSKVT QEADFPGSMDGASNFVRGDAI AGILIMVINIVGGLLVGV LQHG MSMGHAAESYALLTIGDGLVA QIPALVISTAAGVIVTRVSTDQD VGEQMVNQLFNSPSVMLLSAA VLGLLGLVPGMPSLVFLFTAG LLGLAWWIRGREQKAPAEPKP VKMAENNTVVEATWNDVQLE DSLGMATGLLT*PIFRAQWTGQ VTLFAAMPSPGSSSWSLTSLAG CWSACCNMA
6799	37167	B	6849	65	1129	
6800	37168	B	6850	46	1038	
6801	37169	A	6851	2	413	PSFQGPVSLPSITVVSDSQASKP LKTPQLWCQLRQYSFKHSFLV VPTCPVPLLG*DTLTKLSASLTI PGLQPHLIATHLNPQVEDTSIPS LATYHAPLTISLKPNNHPYPSQC QYPIPQHALKGLKPVITHLLQH
6802	37170	C	6852	35	346	
6803	37171	C	6853	239	484	
6804	37172	A	6854	1	1020	
6805	37173	A	6855	3	131	
6806	37174	A	6856	1	956	MAGALPPASLPPCSLISDCCASN ERSSMGIGPSEPCAGYNLLVCR LTKKKRIRSTNKVWDYVKRPN LRIIGVPEEEENSKSCENILGEIIE ENFPSLATDLDIQIEAQRTPQK FITERSLPRYIVIRLSKVKTKERI LRAVRQKHQIFLTQRLKTNTAQ SPQKLPGPSQTLLVTLTREITIVP GLDFNPASHIADTTDPDHCIS LIHLTFIQFPHISFFPVPHPDHTW FINGSSTRPNRHSPAKAGYAIVS STSIIEATTLPSTTSQQAEFIAL TQALILAKGLCINIYADSKY/AF HILHHHAVIWAERDTFTG
6807	37175	A	6857	1	1269	
6808	37176	A	6858	1	741	
6809	37177	B	6859	411	1257	

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6810	37178	A	6860	438	3997	SPLPHSTPISHPAACFKKIKACY HLPATAWPFKAYKLSLQFPHFT CPKTRQGLQHNSHKNTALPD YRLRLISQTPIPSTKQQLLSFLG MVSKVRILTQELGPRPIAFLSKQ LDLTVLTQPSCLHAAAAAALIL LKALKITKYAQLTLYSSHNFQN LFSSSYLMHILSAPWLLQLYSLF VESPTITIVPGTDFNPASHIILDT TPDPHDCISLIHLTFTPFPRISFFP VPHPNHIWFDIGSSSTRPKCHSPA KAGY
6811	37179	A	6861	245	505	
6812	37180	A	6862	346	522	PAPEFWVHG*NVSPLSL*SKEQ EDRGFISQGRSPDLSHGTFHV RPCEETTKQALCEQH
6813	37181	A	6863	3	879	SGDLPWEINPPSSYTLLCEKDPP TTSGPQTNQPKKHLTNFKSETK ETRFIRGPTTPAPVTDWEGSLPL VFNHSRDTSLIHPGFRGVRPRR DACLGPSPLAASPTFLGKGPA PRQTELGPNSSSASAPPYPNFI ASPPHTWSGLQFPSMTSPPPPA QQFTLKKVAGAKGIVKDLINLT FKVYNNRKKLQFLASTVRQTP ATSPAHKNFQTPELQQPGVPPE PPRGACYKFQKSGHRAKECLQ PRIPPKPHPICVGPWHKSDCPH LAATPRAPGTLAQGSLTPSQIFL
6814	37182	A	6864	143	331	DTSTPSLVTDHASLTISLKPNIHF YPD*CQYPIQHALKGLKPVITC LLQHGLLKPINSYPRA
6815	37183	A	6865	1	783	
6816	37184	A	6866	32	415	WRHALKGLKPVITRLLQHGLL RPINSYPNSPFLLVLEPDKPYRK RK*ISPPNRHILASVEVLKNQVN SHEFERSALIHTLTSGLAPCSLH KMCSKLPRSFLSVGSGTGKEAR SKILTFRTASRHLVL

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6817	37185	A	6867	1	1374	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKPTETKTAW YWYLNRDIDQWNRTEPSEITPH TYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPF FTPYTKINSRWIKDLNVRPETIK TLEENLGITIQDIGVGKDFMSKT PKAMATKDKTGKWDLIKLKSF CTAKETTIRVNRQ RVAALLNSA VFQNAVEVVVWPSSEVHVKFL FCKIISCAGQKQPIKFDGSSSL GVATAMMSATIAHLKRIKACY RSPVTAWTFKAYKLSLQFPHT CPKTGQALQ*HT*KGLKPVIAH LLQHGLLKPINSPLYNSLILPVQK PDKPYRKLESFTSKAIKWHQIPS PGKHL C**GS*RSPVTAWTFKA YKLSLQFPHTCPKTGQALQEA GVIHFKGHQMASDPITQGN TYA NKVAKEAASVLTSPVHGQFFSF SSVTPTYFPTEIDFTYMPQVRKL KHLMV
6818	37186	A	6868	122	281	
6819	37187	A	6869	2	2144	
6820	37188	A	6870	224	418	LSQWRHALKGLKSVITRLL*HG LLKPINSPLYNSPIVPVLKPKD RKVESFTAKTIKRCQIPLL
6821	37189	A	6871	5	289	
6822	37190	A	6872	1	2205	
6823	37191	C	6873	1	2082	
6824	37192	B	6874	1	1614	
6825	37193	A	6875	1	2067	
6826	37194	A	6876	1	1152	
6827	37195	A	6877	1	798	
6828	37196	C	6878	488	788	
6829	37197	A	6879	90	765	NTVFGLVVLPLELKLRIFRLLD VRSVLSLSAVCRDLFTASNDPL LWRFLYLDRDFRGDFRNDIYSWT TKDFEYYINLVDKTEARFEKVD SDFESFTVGKMPSNSIACTEKS MKGRVSQCDKKPVITRLLQHG LLKPINSPLYNSPILPVLPKPKPY KLVQDLHRINQIVLPIHPCGAQP HTLFCPQYLPPLTIPVLDLKD FFTIPLQPSQVPLFAFT*TDPDT

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6830	37198	A	6880	1824	2286	PRVLRPNsprnispisnrifsd*R CPIASEASWTITDALG/RLLQWR HGLLNPINSpyNSPILPVQKPKD PYRLVQALLSLPQLPLFLAWTSI WPPTLFRITLLNPMTVSL*ST*H SLHFPMFSPFLTLITLGLLMA VPLGLIATHQQRAML
6831	37199	A	6881	930	1289	LSQWTDGLLKPMNSpyNSPILP VLKPKPYK\*VQDLRLINQIVL PIHPVV\PNPYTLSSIPPSTTHY SVLDLKLAFFTIPLHPSSQPFFAF TWTDPDTHQAQQIT*AVLPQSF SDSPHE
6832	37200	A	6882	2	196	IHGCKFIQCKRILSNFTEVADHV HDQIRL*TGIRLLTQPQRLSCR HQVAQHSVCRYLCQLPLL
6833	37201	A	6883	2	1441	LNQEEGESLNRPIITGSEIEAIINS LPTKKSPGPDGITAEFYQRYKE ELVPFLVKLFQSTEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHNGQHINRTNDKSHIISIDA EKTFGKIQQPfMLKTLNKLGLID GTYLKIIIRAIYDKPTANIILTGQ KLEAFPMKTGTREGCPLSPLL NIVLEVLAIRAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLRLISTFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKALLNEIKEDINKWKNIPC SWVGRINIVKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKFIW NQKSARIAKSILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNTTEPSEIMLHIYN Y/LIFNKPEKNKKWGKDSL FNK WCWENWL

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6834	37202	A	6884	69	2415	DKTSRGTIQQRLRFTNIRCSAA TAADIQANRVWRGPPANSNRP AA\RVLTVRRKTNKQKGHPHQ KPICTSPSSNTKEIQTIREYYKH LYANKLENAEERDKFLNIYTLF RLNQKEVESLNRPTGSEIEAIK SLPTKKSPGPDGFTAKFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLMNIDARILNKILANLIQHHK KLIHHDQVGFIPGMQGWFNICK SINIIQHMNRKTDKNHMIISIDA EKPFDKIQPFMLKTLNKLDD GTYLKIVRAKYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAREIRQEKEIKGIQL GKEEVKLSLFVDDMIYLENPIV SAQNLLKLISNFSKVSGYKISVQ KSQAFLYTNNRQTESQTMSELP FTIASKRIKYLGIQLTRDVKDRF KENYKSLSEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI NQKRARIAKSILSQKNKAGGIT LLDFKLYYKATVTKTAWYWY QNRHVDQWNRTEPSEIMLHIY NYLIFEKPDINKQWGKDSL FNK WCWENWLAICRKLKLDPFLLTS YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGMGKDFMSKTPK AMATKAKLDKWDLIKLSFCT AKETTIRVNRQPTGWEIFATY
6835	37203	A	6885	1	2358	
6836	37204	B	6886	1	1443	

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6837	37205	A	6887	452	2913	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDIYRTLHPKSTEYTFPSAPHC/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKLTQ\NRS ATWKLN/MLLNDYWVHNEMK AEIKMFFETNENKDDTTYQNLW DTFKA VCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEQT SKVSRRPISSEIEAIINSLPTKKS PGPDGFTA EFYQRYKEELVPFL LKL FQSIEKEGILPNSFY EASIILI PKPGRDTEKENFRPISLMNIDA KILNKILANRIQQHIKLLHHDQ VGFIPGMQGWFNICKSINV IQHI NRTSDKNHTIISIDA EKAFNKIQ QLFMLKTLNKLGTNGMYLKIV RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIQGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINLQKSQAFLYT NNRQTESQIMSELPFTTASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWRNIPCSWVGRIN IVKMAILPKVTYRFNAIPIKLPM TFFTELEKTILKFRWNQKRAHI AKTILSQKNKAGGIRLPDFKLF YKATVTKTARYWYENRDIDQ WNRTEPLEIMPHIYNHLIFDKPD KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLT SYTKINSRWI
6838	37206	A	6888	1	1677	

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6839	37207	A	6889	2	2400	SMRQKENKDIQDLNSALHQAD LIDIYRTLHPKSTEYFFSAPHCI /RTYSKIDHTLGSKALLSKCKIT EIITDSQTTVLSELRICKLTQ\NR SATWKLN/MLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDTLMSQLKELEKQEQT HSKVSRRPISSEIEAIIINSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASH LIPKPGRDTTEKENFRPISLMNI DAKILNKILANRIQQHIKLLHH DQVGFIPIGMQGWFNICKSINVI QHINRTSDKNHTIISIDAEKAFN KIQQLFMLKTLNKLGTNGMYL KIVRAIYDKPTANIILNGQKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIQGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINLQKSQA FLYTNNRQTESQIMSELPFTTAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWRNIPCSWV GRINIVKMAILPKVTYRFNAIPI KLPMTFTELEKTILKFRWNQK RAHIAKTILSQKNKAGGIRLPDF KLFYKATVTKTARYWYENRDI DQWNRTEPLEIMPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI CRKLKLDPFLT SYTKIN SRWIEDLNVRPKT TIELEENLG
6840	37208	A	6890	1	1515	
6841	37209	A	6891	1	1428	

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6842	37210	A	6892	150	1920	NYQCREVLKGPDGAENHGTRT T*RMHK\LSSQFSQLEERVSGM EDQTNETKDTHRLKIKGWRKIY QANGKQKKAEEAILVLDKTD KPTKIKGDKQGHYIMVKGSIQQ GQLTILNIYAPNTGASRLIKQVL RDLQRDLDSHTIIMGDFNTRLS TLDRSTRQRLNKDIQELNSALH QVDLIDIYRILHTKSTEYTFSA PHHTYSKIDHTVGSKALLSKGK RTEIITNRLSDHSAIKLELRIKEL TQNRSTTWKLNLLNDYWNL WDTFKAVCRGKFIALNIQKRK QERSKIDTLTSQFKELEKQEQT HSKASRRQEITKIRAEKLERETQ KSLQKISESRSWFFEKINNIDTP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTITRQYYKHLYAN KQENLEEMNKFLDTYTLPRLN WEEAESLNRPTGSEFEAIINSLP IKKSPGPDGFTAKFYQSYKEEL VPFLKLFQSIEKEGILPNSFYE ASIILIPKPRDRTTKKDNFRPISL MNIDAKILNKILANKIQHSHKK LIHNNQVGFIPGMQGWFNCTCKS INIIQHINRTKDKNHMIISIDAEK AFDKIQQPSC
6843	37211	A	6893	1	1797	



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6844	37212	A	6894	2	1880	APNTGAPRFIKQVLSDLQRDLDSHTIIMGDFNTPLSTLDRSMRQKVNKDIQELNSALHQADLIDIYRTLHPKSTEYTFFSATHHTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRIKKLTENRSTTWKLNNLLLNNDYWVHNEMKAEIKMVFETNDTLPRLNQEEVESLNRPKTGSEIEAIINSLPTKKSPGPDGFTAIFYQRYKEELVPFLCLKLFQSIEKERILPNSFYEASHILIPKGRDTTKK/EENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQLGFIIPGMQGWFNICKSMNVIQHINSPKDKNHMIISVDAEKAFDKIQQPFMLKTLNKLIGDGYLKIIRAIYDKPTASILNGQKLEAFTLKTGTRQGCPLSPLLFNIVLEVLARAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLLKLIGNFSKVSQYGTINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDFFKENYKPLLNEIKEDKNKWKNI PCSWVGRINIVKMAIPPKVIYRFNAIPIKLPMTFFGMIFLSQKYGHVTLLFRLLQWLLNVARNNNKVIFYKIYKVGHKLSSAYVLCLTCSHFSVSFL
6845	37213	B	6895	13	1506	
6846	37214	A	6896	1	6635	MTPESRDTTDLSPGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERALLSSYLVAAYRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIPLSDNTISRRICTIAKHLEAMLITRLQSGIDFAIQLDESTDIASCPTLLVYVRYIPLKLRLGGLLQPEKPIVLKVESRDGTIQYNSQQHINLSAAWLKTAVQGREAPGKQPSKQQHSAKRKTHRTQLKKESGDGPHPKFGGGLASP
6847	37215	B	6897	1	3045	

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6848	37216	A	6898	1	2764	MARELHDKCTSFSSRFDQLEES LSAMEDQMNEMMREEKFREK RRKRNEQSLQEIWDYVKRPNL HLIGVPESDRENGPKLENTLQDI IQENFPNLARQGNIIQEIQRMP QRYSSRRATPRHIIJVRFTKVEM KEKMLRAAREKEIQTITREYYK HFYANELENLEEMDKFFETYTL PRLNQEEVESLNRPTGSAIEAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLKLFQSIEKEGILPNS FHEASIIIP
6849	37217	B	6899	1	3549	
6850	37218	A	6900	387	541	
6851	37219	A	6901	1	545	
6852	37220	A	6902	71	370	RRCKVRPSARGVLRVAVCVCV CVCVYPCVHVCTCVRMCLCVC VCVCE/CSVEIHCGGQGCAIC LQPQEGGCTEQAVAHCAAQL WRNRLKLMKQPVARV
6853	37221	A	6904	1	738	
6854	37222	A	6905	1	567	
6855	37223	A	6906	1	1416	
6856	37224	A	6907	3	1267	
6857	37225	A	6908	1	552	NALPGRKSRVFSGCVSADTWK PPSSAKVTETKGASPAFLRAGQ PRLVPGETLEKSLGPGKDPQVE PQHPVHLPGISSEGFPWDGFNE QTPKD\LPNRDGGAWVLGYRA GPACPFLLHEEREKSNRSELYL DLHPDHSLTEQDDRTPGRLQA VWPPPKTKDTEEKVGLKYTEA EYQAAILHLKRE
6858	37226	A	6909	1	561	
6859	37227	A	6910	219	1343	RRLCHTQPTLGMRESELVNV CVHSVFSLSVQAMQEAKDEAK AETIQALYHQTLEALQTLKAL FIEDPTPAGLKSILEALGPWMNS GKAHERARAVNTNVSVLNHM LLTLPFFMPLGFPALGLLGLRI LHIGDPDEEIGCEALDGIILYTI LELQKRARDKEETNKKELYES NKHFLGPYNPVSPQNILRVIEE FGDFLGPQQIKDLLLALEGLK GSSEAPGKDSREMMQLASEVM LSSVLEWYRHRALEVIPEIMQGI YMQLSHIQEPRARQVALLPVSL LASSFMTEVVVALLMCPLPLNR QPAACASSCPSTAAWAV*GAST LSCSWPCSFRSITTSASTCLAAW LLPRTPRRVHSPPLPSYLCAGW

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6860	37228	A	6911	3	730	
6861	37229	A	6912	2	1218	ERKCMQGGKYAGAMESEPCVCT EADFDYCDYGYERHSNGQCLPA FWFNPSSLSKDCSLGQSYLNST GYRKVVSNNCTDGVREQYTAK PQKCPGKAPRGLR\VVTADGKL TAEQGHNVTLMVQLEEGDVQ RTLQVDFDGDIAVSYVNLSSM EDGIKHVYQNVGIFRVTVQALV RLPPHISQCDEVFRFFEARPEDV NPPKDQALLLGELGPAVELCLK EERFADAILAQAGGTDLLKQT QERYLAKKKTKISSLLACVVQK NWKDVVCTCSLKNWREALAL LLTYSGTEKFPELCDMLGTRME QEGSRALTSEARLCYVCSGSVE RLVECWAKCHQALSPMALQD MHVISTDENQVFAAVQEWNQN DTYNLYISDTRGVYFTLALENV QSSRGPEGNIMIDLYEVTI
6862	37230	A	6913	1	1659	
6863	37231	A	6914	540	824	KPRLENYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWDYVKDQ IYVRLVYLKVTGRMEPSWKT CRILSRRTSPI
6864	37232	A	6915	1	939	
6865	37233	A	6916	285	458	QVFSQLEGRIALGKFQRPSSLPT GKWTQRCWWGAQWE*D*LFG LHGWWVRPVIAGFP
6866	37234	A	6917	32	171	
6867	37235	A	6918	294	461	
6868	37236	A	6919	2	255	LIPCPATVNNVSDIMGMYMKE CSASLITREMQRITTIMRHHLTS IGTEMIRK/SKNNECWSGRECQ TVGAGQCVRAPCASRSRHH
6869	37237	A	6920	2	393	
6870	37238	B	6921	87	633	
6871	37239	A	6922	78	260	TQYLRWKCNRHRLRLRRSCWEL *TRAVPIRPSWLQNRYYQGTSRF CVCFEESGTPSTQLEI
6872	37240	A	6923	1	369	FVLHEKCLGPFIWTGNTNVEM VKKICAPT*TKHVW*LES*M WEEPRWPN\GKAPVYSSQREQR RRRVISAFPSGVLPSTFKNKKF TVKQPQVGRSVGIPEEGIVIIGD GQLQGCLLPLKTF
6873	37241	A	6924	3	201	LKEMQINTTMRYHS\TPSRYS* KKTDDNNKFWMRMTEKLETSY CWWECEMTPRQWVSLQYLL PLI

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6874	37242	A	6925	1	2064	
6875	37243	A	6926	95	752	
6876	37244	A	6927	2237	5072	RAKSPANIIMTGSNSHITILTLN VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
6877	37245	A	6928	3	331	
6878	37246	A	6929	364	853	
6879	37247	A	6930	2	531	RPRVRELVGSAIQALKEWNTT GKLRIH*KRCSGTQHHGSKYA TDKEERPDVACPLQPQQPIQNG PMNGCEKDSSSTDSANEKPALI PREKKISILEEPSKALRGVTPNI EKSAKDLQRCTVSLTRYRVMIK EEVDSSVKKITAFAELHNCIID KEASLMAEMGTVNEQAMRC
6880	37248	A	6931	1	456	ISILEEPSKALRGVTEGNRLQ QKLSLDGNPKPIHGTTSDGL QWSAEQPCNPSKPKAKTSPVKS NTPAAHLEIKPDELAKKRGPNI EKSVKDLQRCTVSLTRYRVMIK GEVDSSVKNIAACAEPICIID KEVSLMAEMDKVKGRKPW
6881	37249	A	6932	333	964	
6882	37250	A	6933	240	691	
6883	37251	A	6934	1	2076	
6884	37252	A	6935	14	485	RRSLESVLSRKLNP*F*KATGTSR SESAVWAIIDAVSSPQKRLDSE FIDPLMNKKARISHLTNRVPPTL NGHLNPTSEKSAAGLPLPPAAA AIPTPPPLPSTYLPISHPPQIADS HSPAAPVQGIQPFILTADQYWLE NRYPSQHLRSRVTASRARHQT
6885	37253	A	6936	1	643	
6886	37254	B	6937	1	408	
6887	37255	A	6938	2	197	
6888	37256	A	6939	103	298	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
6889	37257	A	6940	117	257	

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6890	37258	A	6941	46	219	LKECNCIVCNSKNKCLKG*KKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGRRGRGRGRRR RRRRRRKKK
6891	37259	A	6942	1	1314	MVSRIWSWISEAQCLCRPSGT YGPGEAALLLWLCIEAAAAAA AARSTTTPIITNHQSNITAEQNP PRHENGDPKTYIIHVLAEQVLE RLPHGVALRHDPAPVVSRA GVGHQRCADDALQPLLQGRP EPGLAERHGVQDNLILKVSHTH TQKSAEKRAVSDPSSTVHRPQP LPPSTVHQSTIPSNPDSSAYCL PSTRHGFSSYTDSFVPPSGPSNP MNPTIGNGLSPQRVHYQHLP AGGKRNAALEYGVPRKYHYM LKITASDYEKTKPFQVGDKVM GSGWRKVGMQT*FL*LKKEEE EEREEEE\EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEENSLSLTE
6892	37260	A	6943	1	160	
6893	37261	A	6944	1	306	
6894	37262	A	6945	1	933	MWLARELEESLAVSLQGEPL LAGAGRLQGSFSPHMEPGRQS ETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEEEE DQLDTM\FGTHQQTSPQRSAR RRPCSVQGPRS*SPFSPHMEPGR QSETLSQKKKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEGEE EEDQLDTMLWDSSTNLNTAL SKEKTMFSSRAKIVKPNGEKPD EFESGISQALLELEMNLDLKAQ LWELNITAAKEIEVGGGRKAI FVPVPQLKSFQKTQVQLRRILP KPTQKSCNTNNKQKLPRSCTLTA VHDAILEDLVFPSEIVGKRIHV LDGSHLIKIHLEDAQQNNVEHK VEPFSGVYKKLMGKDVNFEP
6895	37263	A	6946	1	1365	
6896	37264	A	6947	416	610	EFKKPVLEGGA*RGEGGSPCV WSFFDPVHFNYQAGLFRVALP GEQCRTGRLVARVYTGISGASF
6897	37265	A	6948	1	846	

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6898	37266	A	6949	3	620	HVTLLIVVTQSHLVIHNLFEGLMI WFIVPISCVICNDIMAYMFGFFF GRTPLIKLSPKKTWEGFIGGFFA TVGFGLLLSYVMSGYRCFVCP VEYNNDTNSFTVDCEPSDLFRL QEYNIPGVIQSAIGWKTVMY P\FQIHSIA\LSTFASLIGPFGGFF ASGFKRAFKIKDFANTIPGHGGI MDRFDCQYLMATFVNVIACV LRPL
6899	37267	A	6950	50	554	
6900	37268	B	6951	446	625	
6901	37269	A	6952	1	2149	
6902	37270	A	6953	1	1704	
6903	37271	A	6954	1	1853	
6904	37272	A	6955	1	1305	MVKGSIQEELTILNIYALNTGA PRFIKQVLRDLQRDLDSHTIIMG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADIIDIYRTLHPKST EYTFFSAPHHTYSKIDHIVGSKA LLSKCQRIEITNCLSDYSAIKLE LRIQKLTQNCSTIWKLNNLLN DYWVHKEMKAEIKMFFETNEN KDTTYHHLWDTFKA VCRGKFI ALNAHKRKQERFEMDTLTSQ KELKKQEQTTHSKASRRQEITKI RAERKEIETQKTLQKINESGSW FVEKINKIDRPLARLIKKKREKN QIDAIKNDKGVITTDPTIEIQTIR EYYKHLIYANKLENLEEMDKFL DTYNLRRNLNQGEVESLNRPIG SEIEAIINSLP/TKKSPGPNGFTA KF*QEELTILNIYALNTGAPFI KQVLRDLQRDLDSHTIIMGDFN TPLSTSDRSTRQKVNKDIQELN SALHQADIIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCQRIEITNCLSDYSAIKLELRI QKLTQNCSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYHHLWDTFKA VCRGKFIAL NAHKRKQERFEMDTLTSQKE LKKQEQTTHSKASRRQEITKIRA ERKEIETQKTLQKINESGSWFV EKINKIDRPLARLIKKKREKNQI DAIKNDKGVITTDPTIEIQTIRE YYKHLIYANKLENLEEMDKFLD
6905	37273	A	6956	1	1926	

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6906	37274	A	6957	2	1025	WRRYQANGK*KNK/QKKAGV VILVSDKTDKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLNIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTEIITDCLSD HSAIKLELRIKKLTQNSSTTWK LNNLLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLE/LEKQEQTHSKASRR NLEEMDKYLDYTLPRNLQEE FESLNRPTGSEIEAIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKQVLSDLQRDLDSHTIIMED FNTPLSTLDISMRQKVNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHKEMKADIKMFFETNES KDTTYQNLWDAFKAEELESLN RPITASEIVAIINSLPSKKSPGPD GFTAKFYQRYKEELVPFLLKLF QSIEKEGILPNSFDEASIILIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQHIKKLIHHDQVGFI PGMQGWFNIHKSINVIQHINRT KDKNHMIISIDAFAFDKIQQSF MLKTRNKLIGDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSGYKINVQKSQAFLYTNNR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIW DYVKRTNLRLLIGVPESDWENG TKLENTLQDIIQENFPNLR*AKI QRI RSQDPSTHLTSRDTHRLKIK GWRKIYQANGKQKKA AVTILVSD KTNFKPTKIKRDNEGHIYIMVKG SNQQEELTILNIYAPNTGAPRFI KQVLRDLQRDLDSHTIITGDINI PLSTLDRSTKQKVNKDTQELNS ALHQVDLIDIYRTLHPKSIEYTF FSAPHHTYSKVDHILGSKALLS KCERIEITNCLSDHSAIKLELRI KNLTQNHSTWKLNNLFLNDY WVHNEMKAEIKMFFETSENKD TTYQNLWDAFKAVCRGKFIAL NAHKRKQERSKIYTLTSQLKEL EKQEQTHSKASRRQEIIKIRAE LKEIETQKTLQKLNESISHQLEW QSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPPGLPYKSS*KKH*TWKGT TGTSCC/INHAKIVTHRLKIKGW RKIYQANGKQKKA GVANLVSD KTD FKPTKIKRDKEGHIYIMVKG SIQQEELTTLNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLLT LDRSTRQKV NKDTQELN SALHQADLIDIYRTLHPKSTEY TFFSAPHHIYSKTDHILGSKALLS KCKRTEITNYLSDHSAIKLELRI KNLTKNRSTTWKLNNLLNDY WVHNEMKAEMKMFFETNENK DTTYQNLWDTFKAMCRGKFIA VNAHKRKQERSKIDTLTSQLKE LEKQEQTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	



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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFI QGM QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKMCL*R RWTPCLLLTAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMGCR/DWHLLLV/ KGLRKLTI AEGEGGAGMSLG ESGNKIKRDKEGHYIMVNGSIQ QEELTILNIYAPNTGAPRFIKQV LRD LQRDLDSHTIIMRDFNTPLS ALERSTREKVNKDIQELNSALH QADLVDIYRTLHPKSTEYTFFS APHRTYSNIDHIVGSKALLSNC KRTEITKCLSDHSTIKLELRIKK LTQNRSTTWKLNLLNDYWV HNEMKAEIKMFFETIENKDDTY QNLWDTFKAECRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEKET ETQKTLQKINESRSWFFERINKI DRPLARLIKKKREKNLIDAIKN DKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPITGSEIVAIIN SLPTKKSPGPDGFTAIFYQRHT VSILISYCQGGSLMSQVYWNQQ EKPPSSSNAPPGLSVNKAQHRH VCCRGEMLKRVQVHYVRAGES DSASFHCVAQGPRAFGKPLILS KENHLLTVTAIAKLNHKLCEIK SMGVFINTEPLYDSCLEQKHAL FASPPATTHSTTMISKAKVIPML SLTPGSFQTVESLAPSAGKFQG TETSSLKTLINLCCPKLPSPSPA HLGGLPGGSQERPSRQYLYESA RTTVLLGLGCPLKQIQLRSQHS SPLEYLES LPKKDRKKREKIQIN

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6924	37292	A	6975	I	1687	MLKGSIIQQEELTVLNIYAPNTG APRCIKQVLSDVQRDLDSNTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTSHSKEIQTTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGTS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEEMHINRAKDKNHMIIS IDAEKAFDKIQQPFMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLARAIRQEKEIKGIQ LGKEEVKLSLFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWVGRINIVK\MAILP
6925	37293	B	6976	I	2431	

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6926	37294	A	6977	1	1921	MGESVQSLTLTAQKRSMMIQV AVAPRTPTLLLKLYKEKASKTQ LKKVNLVVQDQGSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKDSYGLR QSSTMVATTWNNVSLMQHHSL RRPNRHLTASYPHFHQEI PVNF FHSGRDSSEFGWNQHIKKDKE GHHIMVKGSIQQEELTMLNIYA PNTGAPRFINQVLS DIERDLDSH KIIMGDFNTPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTEITNCLSD PRAIKLELRIKKLTQNRSSIWKL NNVLLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKAV CRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIKKK REKNQIDA KNNKGDITTDPTI ETTIREYYKHLTYTNKLENLEEM DKFLDITYTLPRLNQEEVESLNR PITGSEVVAIINSLPTKKSPGPDG FTAEFHQRYKEKLISELLPMPN HTALKKQTQDLS DCKAMFLYY QSVSVQTAIINYHRLRGLNNRN LFLT VLEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLTKMLICAALLGLFCMLLGL RWQVAELIGMTLALSSTAIAM QAMNERNLMVTQMGRSAFAV LLFQDIAAIPLVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSGLRE VFSVALFLVFGFGLLLEEVGL SMAMGAFLAGVLLASSEYRHA LESIEPFKGLLLGAVFTPRVVV NIYSSELRTAKNYQANGKQKK PGVAILVSDKTAF/KPTEIKRDK EGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDL SHTLMMGDFNTPLSTLDARSTR QKVNKDTQELNSALHQADLIDI YRILHPKSTEYTFPSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNTQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDMTYQNLWDT FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEKETQKAIQ KINESRSWGPPGNCQQNYRNSE SGEKSAPEGQAQHAGPTEGKV PTFLYVGKEKFPPSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVGIGDTHDSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMELEKIMAEQELCDEWT SLSSRCNQLEERSVMEDEM EMKDKHRPKIKIEWRKIYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQQEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNDIQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELKIKKLTQNL STTWKLNLLKDYVWHKEM KAEIKMFFETNKNKDDTTYQNF WDTFKAVCRGKFIALNAHKRK QEGFKIDTLTLQLKELEKQEQT HSKASRRINKIDRPLARLIKRR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDITYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDG FTAKFYQRYKEELVPFLLKLFQ SIEKEGILPNSFYEASIIIPKGR DITKKENFRPISLMNIDAEILNKI LASQMQQHIKKLIYHNQVGFH GMQGWFIHKSINVIQHINRTK DKNHTIISLDAEKAFDKIQPPF MLKLTNLKLGIDGMYLKIIIRA IYDKPTANIILHWQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AVRKEKEIKRTQIGREEIKLSLF ADDMIVYLENPIVSAQNLLKLIS NFTKVSGYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHRLANWIK\SQDP\SVC CIEET\HLTCRDAHRHKIKGWR KIYQANGKQNKTKQKKQGLQ ILVSDKRDFKPTKIKRDKEGHYI MVKGPIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGD\FNTPLSTLDRSMRQKVND DTQELNSALHQADLIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIIT\NYLSDH SAIKLKLRIKNLTQNHSTTWK LNNL

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6932	37300	A	6983	599	1074	NPRAW EKQQPPTSPQEFCLVCF VVHLQKSTREALNNKNIKPLLS TFSQVPG/SINHSSCENVLAIIISL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCDTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLWPMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPRVNTPGTKLPQPNRPV SLSFSQMKLLTSSHWKSFHCPA *INPAQSSPGWP*PQLSGCPAF QFLSFG*KSLSSGNTASSSPLW FLCWCFLNLVLQAKLPDGFPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLLTSSHWKSFHCPA*I NPAQSSPGWP
6936	37304	A	6987	1	2021	PTRPAAQWRARAAEKMSPTP PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAI VSLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCDTIFTFVEKN VATWKSNTFY SAGKNYLLRMC NDLLRRLSKSQNTVFCGRIQLF LARLFPLSEKSGNLQSQFNLE NVTVFNTNEQESTLGQKHTED REEGMDVEEGEMGDEEAPTTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFLKYSEEVLA V FKSYKLDDTQASRKKMEELKT GGEHVYFAKFLTSEKLMDLQL SDSNFRRHILLQYLILFQYLKGQ VKFKSSNYVLTDEQSLWIEDTT KSVYQLLENPPDGERFSKMVE HILNTEENWNSWKNEGCPSFV KERTSDTKPTRIIRKRTAPEDFL GKGPTKKILT GNEELTRLWNLC PDNMEACKSETREHMPTLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRALKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRKQLLVAV QDQEGVHATPENLINALNKSGL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVVHRAPGVQEVTEDP RDPLAQLATRDRKERRGSLDH LALRVREAQLDQLVPPESVAA KDLKAPRAPKAPVVPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGLSLGCLDLGD CQACLG YQACQAPRAPALLA HQERWCPWPCRMSQPQHRRT MAARLTGRTSQT NATIFQLRKK FLRMQSFSVKTS LHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRCF SKG*HWRH TVNSNFGPMGNPSHPTTSSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNRTILASDLSGSDRWRRTY RCL*RHGPFRFSSCRLSCRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRF AAASCP THQVH VHRWRKPMVFLILESDLKYTV LSLPEECHTGAHEQSSHCLLLSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEEEEEEE REEEGDEEQEEEEEE\EEEEEEEE EEEEEEEEEEEEDDDDDNGLLQTL PGLHEMRVNLTRSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEE/DKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE\EEEEKVVE EEDEFIWFLGNSLYFPSFSHFA WSQIPSRDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQFQPGQQSETVSEK/ EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEI
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	



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6950	37318	A	7002	1	1226	MPSSKGVHVSPPRYLAAKDF KMINKELTAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFALLS FAFICVTDQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPSSLSDNLDFS KQDGNTTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRRVHSDQTHSGKL*RGKGS W/DCMREKASQPFAVVPVIV*V /VPFENLQEGEEGRLCCECPDEP RRVHVAGRSMYEGEV VNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKIFLGHVRGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLP LLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDDVTITFLPLV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDRYRQIRPCTSLF
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNWMENAFDELT EVGFRRWVITNFSKLKEHVLTO CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTSQELREAYTTE ERISEIEDQLNEIKHEDRIREK/R/ VKRNEQSLQEIWDYVKRPNLH LT/GVPESDGENGTKLENTLQDI IQENFPNLARQANIQIQEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGPIFNIL KEKNFQHRMSYPAKLSFISVGE IKYFTDKQMLRDFVTTRPALQE LLKDALNMERNNNQNQSLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEEGLMIGGVA VRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAAVHVFTSMK YLFGVKTKRYSGIFSVVYSTVA VLQNVKLNLCVSLGVGLMVFG LLLGGKEFNRFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIRIEKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPFNILKENFQTRISH
6974	37342	A	7026	1	1080	

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6975	37343	A	7027	1	3501	MIVYLENPIVSAQNLLKLISNFS KVSGYKIYKIDVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY PGIQLTRNVKDLFKENYKPLL EIKEDTNKWKNI PCSWIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPIYNHLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLKLD PFLTS
6976	37344	A	7028	164	714	IGVNRHLIQESPSWNL AGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHLPGVADRHLIQESTG WHLAGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLT VRRKTNKQKG IVSTSTKRTSSEGHQHQRKVD KFTEMGRNQHKKAENSKNQ ASSPPKDHNSLPAREQNWTE N EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERV\SEIE DQLNEIKREDKIREKRMQRNK QTLQEIW DYVKRPNLHLIGVPE SDRENGTKLENTLQDI IQENFP NLARQANIQIEIQRTPQRYSSR RATPRHII VRFTKVEMKEKMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPIFNILKEKNF QPKISYPAKLSFISEEEITSFTDK QTLRDFVTT RPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLLEPQG PLRAGSSPAGK/IGGT LERRGMPWPGP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRD CSSRV
6983	37351	B	7035	743	1683	

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6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTRTHPVVIS VPECIIGIDILSSWQNPHTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPTTSPFNSPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASFEW GPEQEALQQVQAAVQAALCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

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7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAFAEL DKGWLVLWLEGKGVIGARRSW RAHSALIKICVQQIKDSLPGKM SKGLLQQQKPKHLLHDLYKA MSTRWGVQKARLNCTALPTG CVTLDPSTLTPQFPRQLSEDLL LTREALEKEVQLRRQLQKEKEE LLYRVLGANASPAFLAPVTPT EVEKERELELRDRLDEQQRVLE GKNEEALQDPRLVDPLTSCTVH FEKPQMLNARLWKHAGREAV ACKVRGSELPKTMGTYPHGH DLVDVRHGVKGDHFGALRFDCP AGFWTCMGLAPSWPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQQSNFALNAR EKALQQVQAAVQAALPLGPYD PADPMVLEVSLADRDAVWSL WQAPIGESQQRPLGFWGKALPS SADNNSPLERQLLARYWALVE TEYLTMGHQVTM*/ELPIMNW VLSDPSSHKVYAWQHSIIKW KIDRA*AGLAGTSKLHEEVAQ MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCLRAAFVFT RRHAPSAGRGFTRSYVSAGSW TETQQGLWGLSTKLGLADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLLFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKGCSKA RHLQYWSTKTPQSLSFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNF TKIKRDKEGHYIMVKGSIQEE LTILNIYAPTGA PRFIKQVLS DRQRLDFHTLIMGDFNTPLST LDRSTRQKVNKDTQELNSALH QADLIDIYRTLHKSSTEYRFFS APHHTYSKIDHLLGSKAFLSK CKRTEIITNYLSHSAIKLELRI KNLTQNRSTTWKLNN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNGSGMDQCDD GGGKILDPVYILTVELTGFAKG WKMFSVKDQSVNVLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEEKRELKLF SQRKRENLRGNVRPFPVTMT GAICEQCCGQINGGDIAVFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHHAEC KPRCAACDEIIFADECTEAAGR HWHMKHFCCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRKGACPLS SVGPVIPSVP*NTQRT*RPQSRP LGAPWNPWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSCLP EEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKREN LG RGNVRPFPVTMTGAICEQCGG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAEC LKPRCAACD EIIFADECTEAAGR HWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QQQMTYDGGHWHATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA GPRSPGAVPKLARTRARRGAH AEP AQPAASEF*PAVSRRRPPVT ADGHAQPVQPD TQPGPHLE EPGRALPLWEQDGAEPDPEPSA APRQCNIRTSYSPGGQGAGA Q PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDYYPGR LRSQE SYSDMSSQSFSETRGSIQVPKYE EEEEEGGLSTQQCRTRHPISL KYTEDMTPT EQTPRGSMESLAL SNATGLSADGGA KRQEHL SRFS MPDL SKDSGMNVSEKLSNMGT LNSSMQFRSAESVRSLLSAQQY QEMEGNLHQLSNPIGYRDLQSH GRMHQSDFDGGMAGSKLPGQ EGVRIQPMSETRRRATSRDDN RRFRPHRSRRSRSDNALHL ASERE AISRLKDRPPLRAREDY DQFMRQRSFQESMGHGSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWPVLD DPESRLCCFPSLGSLANPTAVG LEEDREQDVGTSRRGGAWDTRI KRELEKMSEKCGGQINGGDIIV FASRAGHGVCWHPPCFVCTVC NELLVDLIYFYQDGKIYCGRHH AECLKPRCAACDEIIFADECTEA EGRHWHMKHFCCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQLGPSV MRSPLFWGVGIAAAALDAVLIR AHQRTQGCHHELSALLAFEKG SEKKEEEEQGVSRSSSLKVQA QELSATEDKGHISPFWEAVYH YASGECRGPYPYSHSLRLYSQ QALPTGRGPSSSQPFCQFYCC YKKSLLCDCLSKSPALEKAMR GIDQQQMTYDQGHWHTETCF CCAHCCKSLLGRPFLPKQGQIF CSRACSAGEDPNGSDSSDSAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAPRQCNIRTSYSPGGQGAG AQPEMWGKHFSNPKRSSSLAM TGHAGSFIKECREDYYPGRLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEEGGLSTQOCRTRHPIS SLKYTEDMTPTTEQTPRGSMESL ALSNTATGKTCSVTFQAKETCR YQDAQFGKVKARVKERQSLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFGAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTITIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIQEESELCRTVDPL AGSYGGAIQQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRVIVGV

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCSWFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLA KPIEEERLHNNLLRYKPGSGISS RVVTPEVNEIVVNPATLDWQ LALRQAAGKTDLARDMLQML LDFLPEVRNKVFEQLVGENPEG LVDLIHKLHGSCGYSGVPRMK NLCQLIEQQLRSGTKEEDLEPEL LELLDEMDNVAREASKILGPKD THLRRIIRDVLATDPRPARDRR KACLHACVLRTPPLGAARAIHQ QIDEAGGMAKAI EAGLPKRMIE EASAREQSLIDQGKRIVGVNK YKLDHEDETDVLEIDNVMVRN EQIASLERIRATRDAAVTAAL NALTHAAQHNNLLAAAVNA ARVRATLGEISDALEVAFDRYL VPSQCVTGVI AQSYHQSEKSAS EFDAIVAQTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFDVDLSPMFSTPEEIARLA VENDVHVVGAISSLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGGEQ KLVVTTGASGAPDRQAARCAA SAKISWYRSKGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH



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7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEO KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFGVGFLE APRGMLSHWMVIKDGHSNYQ AVVPSTWNSGPRNFDDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIADAIV SKKNAPGTMILRDEEVPALFT NKISPHQLGLADVLSDLRFTGE FPKKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKSPGPD GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISDAEKAFDKIQQPF MLKTLNKLQAQNLKLLISFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR\PSEI TPHIYNYLIF

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7049	37417	B	7103	1	1722	
7050	37418	A	7104	1	3513	
7051	37419	A	7105	1	2546	MSELPFTIATKRIKYLGIQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTempsNDTLDK ENVAYIHHGILCSHSGRVHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNHMIISIG AEKAFDKIQPFMLKTLNQLGI DGTYLKIIRDIFDRPIANILLNGQ KREASPLKTGTROGCPLPPLLF NIVLEILARAIQEKEIKGIQLG KEEVKLSLFADDMMIYLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPMFTFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIIPHVYNHLIF DKPDKNKKWGKDSL FNKWCW ENWLAICGKLKLDPFLTPYTKI NSRWIKDLNVRPKTIKLEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNIELKSFCTAKE TTISVNRQPTWEKIFAICLSDK GLISRIYKELKQRHKKKTNNPIK
7052	37420	A	7106	1	2575	
7053	37421	A	7107	1	875	
7054	37422	B	7108	1	3421	
7055	37423	A	7109	1	3790	MELKTKARELREECRSLRSRRN QLEERVSAMEDEMNEKREG KFREKRIKRNEQSLQEIWYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTTPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	134	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPDAHVGC*SRSRKRPD RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPVL LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRCGNP PARSFCPSSGSRRRSSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRPVWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRYHRSNHGTPPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCPQRFAPDK*I SSPD*AMNYRKHPRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPLSSAGYP/GKRIRAQ NLIPASTTNGQLRIRQRRISQAR **TKRMARKGSISPISAVSNSLN SS*ASIIVSSCIRCSALSPLSNIHK S*TAGPWGASSRKTNIGLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRPVWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHI VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDA IKNDKEDITTNPTEIQT IREYYKHLYPNKENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIISIA YQPKKVQDQMDPQ PNSTRVLEVLARAIQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYWYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEAESLNKPITGPEIEAI NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMISIDA EKASDKIQPFMLK TLNKL GIDGTYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLRARIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILTL RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMFTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRVDVQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEIWLAI GRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKLEESLGIQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

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7081	37449	A	7135	101	1686	SIAYQPKRVQDQMDSQPNSTR ANIILNGQKLEAFPLKVTGTRQF SKENFEPLSPLLFNIVLEVLARA IRQEKEIKGIQLGKEEIKLSLFA DDMIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNKWKNI PCSWVERIYIV KMAILPKVIYRFSAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYWYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLALCR KLKLNPF LTPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDIGM GKDFRSKTPKAMATKAKSDK WDLIKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRHMKKCSSSL AIRQMQIKTTMRYHLTPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQKRPLTKF NNASC*KLSIN/IVLEVLARAIQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNER KEDTNKWKNI PCSWVERINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWN RTE PSEILPRIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKAKIDK WDL IKLSFCTAKETTIRVNRQPTER EKIFATYSSDKGLISRIYKELKQI YKKRTNNLIKKWVKDMNRHFS KEDVYAAKKHMKKCSSSLAIR EMQIKTTMRYHLTPVRMAI SGNNRITIVLLPGSLIVRSFHVTL NAILLHPGLTLFSPSAGRDI PR VAFSYLAFSAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown. *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPFKKSMNPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEIESLNRPIITGAEIVAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLKLFQSIEKEGILPNS FYEASINLIPKGRDITTKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVVLLPPWRQS
7097	37465	A	7151	1	1914	

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7098	37466	A	7152	1	2200	MKLTTHRENMALTNNGFCHHIA AQONLYTNTLLAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSERDIDDARQN FLAQDALAQIQSQLDSLNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPNGYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGDDAEVVFNALPG KVFSGLAAISPAVPGGAYQST GTLQTLNTAPGSDGVIATIELDE HTDLSALPDGIYAQNPNKLIKIV ELKAPQLPRSLDDAQIALAVIN TTYASQIGLTPAKDGIFVEDKES PYVNLIVTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLTYGSGYLAGMKLGD TPLVEYTRDRLHRETLRSFGRY ELTTAYTPAGQLQSQHLSLLS DRDYTWNDNGELIRISSPRQTR SYSYSTTGRLTGVHTTAANLDI RIPYATDPAGNRLPDPELHPDST LSMWPDNRIARDDNYLYRYDR HGRLTEKTDLIPEGVIRTDERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLGARRVAKRW RRERDLTGWMSLSRKPQVTWY GWDGDRLLTIQNDRTRIQTIYQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSPEARKITRRWRIGEAAD LVGVSSQAIRDAEKAGR/LP HPDMEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKELNNDYTSKKVMKPLIT SNTVTDEIERANVLKMNKGWY LFTDSRGSKMTIDGINSNDIYM LGYVSNLTGPYKPLNKTGLVL QMALDPNDVTFTYSHFAVPQT KGNNVVITSYMTNRGFFEDKK ATFAPSFLMNIKGNKTSVVKNS ILEQQQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7106	37474	A	7160	3	1743	DSPEARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWVPDLHIH AEDTLLPFYLGEKDDVTYA IKP TCWPGLDIIPSCALAHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSSTP AAPMVDSLIARVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRL/VKRAPTC WPGLDIIPSCALAPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVF DANA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSACKRDCINA GHEMTKAI AIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGHLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQ RVGYTIEQI NHMRDV FVAGDEKGYESFPWF IKTCAVHPSRGLYSVHINPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNP CVSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTE TMYHGWVVDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGSL PTDPHLMYYYQAPCMKSNNAL IVILGTVTLDAVGIGLVMPV\CR ASCGISSIPTASPTMACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHK\AGNLSCQLH**IGQR AGRGGLRIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRN\VFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFA\HFGNHHQNRIFALLGQ TSVDRLLQLSQGQAVKGNQLL PVSLVKRKTTLAPNTQTASPR LADSLMQLARQVSRLESGQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLRR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKRRGLAGTAQGPGE EAPKGKKGKTEPGHERKGNWT GKGPPQIREGTSPNPPREHGGE APPPPSAKRKQPKAQKRKANSN AHPRQPKPKKRPRQTNSTRTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKAKGLTALSPQTDWNR KRNSSKPLAQVQEEDSAWHPE CLQKTRQAWCDNLKTCHTSHG SVMAETA VINHKKRKNSPRJVQ SNDLTEAAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNPLTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSGIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQCINAGHEMT KAIAIAQFNDDSPARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGLRLRAEDVFP PVIGVAAHKGGVYK\TLISVHL AQDLALKGLPGLLR\EGNDPQG \TTSMYHGWVPDLHIHAEDTLL PFYLGKDDVPYAIKPTCWAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPLMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADV LIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFE PDVFIRD KLMERRNRRTGRTEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAY DLALKGLRVLLVEGNDPQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELWGK/FDEGR SFMPGPP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATLRLIKEQRPYVPYAHLQQA VVDPRRGGHMVLI/NVVRVTG DVGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTG QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGEAICPVRMFRMKLMETLN QCINAGHEMTKAIAIAQFNDDSP GSEENNPALENR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGLRLRAEDVFPPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGLRL LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVLL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

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7169	37537	A	7223	1	1710	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVSHAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDM\FLA GFGFQF*PAGGW/WGSNPFFAK\ RYTRSKPYTYGDNGYVAGWV AGYNFMLGSEKFTLTNWEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKKLADCPSPRPVFEALCICS MLDALLLLCPLDYHASC DNYS YALLDPQGFPLPHRRLWGPYID VDVPMHLIQHAWAQDALLSC LYSDLLYMSSFPYPAGTLTRLM GVTSYNHKNTLLTYCITLMSTI RFAYDGDEEIAMKYTDFLKGE LSMNIRPLHDRVIVKRKEVETK SAGGIVLTGSASAKSTRGEVLA VGNGRILENGEVKPLDVKIGDI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPRLFA PQAPRLFDHRGFLTFASANFAA VAFCPRLFPPTGAAA VCPLPLF APRRFLPPPPRLFRCHGFFPPC LGFLTSAAFFLPPPRFLALRRRG FLPFAAAAAFFPTRLFAPPPTQL FAPSPPWLFAAAAFCPPWLSAP TPPRLFVPAAAAFCCRDFLPPSP PLFRHRDFLPPPRIFVPAAL RAGAADSAAGSTGVLGQDLWS RCVVG TGMEAPGSRGGGGGLR EDIPLPPEFPSGPALSSCR*GNRR PEGEMTCQEPLLS/CSWIP*VKE FETNPDNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTWGGGFSGSMPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFQKQ LPKDAPPSEERLEESRILTLIIGAL GIAYLAMYPSEHGFNITINTVNL MFMIAGLLLHKTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDDLGGHGLG VNVASLLGDGQQRSEVEMLG LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLE AAYEKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GA\WSLNEAIKIGKYLKGS LAY AEDPCGAEQGFSGREVM AEFR RATGLPTATNMIATN WREMGH AVIAQ\SVDIPLAD PHFWTMQG SVRVAQMCH EFGLTWGSNSN HFDISLAM FTHVGAAAPGNPTA IDTH WIWQEGDCRLTQNP LEIK KGKIAVPDAPGLG VELDWEQV QKAHEAYKRL PGGARNDAGP MQYLIPGW TFDRKRPVFGRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQ PENLTL VVLSRNLPQLAL PICVFVINCW KLA VSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDL PVVGYR NGVAQPLRL WQATHAHPDLT KFND GDFLRAEQQG INAEKLT KVL YPNDNHTAGK KLRLMQQYF QCAC SVADILRRH HLAGRKLH ELADY EVIQLNDTH PTIAIPELL RVL IDEHQMSWDD AWAITSKT FAY TNHTLMPEAL ERWDVKLV KG PLPRHMQIIN EINTRFKTLDL QDAEHRPLK MRGCLLCQCH TL FQK HRFFTGAGGN RQNNVIE HLVA ASRYRFTTAS RRPLFTAG FTLL TAFLFHSNFA EGVNSLMF M KNLTISGGFL LLAITGPGAY SIDRLLNKKW
7176	37544	A	7230	1	660	



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7177	37545	A	7231	545	1322	KHAEHLGQATHAHPFILTKFNP GYFLARRQTTRGINAEK\LAKIFF \PKANHFAAGKKLRMLMQQYFQC ACSVADILR\RHHLAGRKLHEL ADYEVIQLNDTHPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNHTLMPEALERWDVKLVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVWAKLAVVHDKQVH MANLCVVGGAFAVNGVAALHS DLVVKDLFPEYHQLWPNKFHN VTNGITPRRWIKQCNPALAALL
7178	37546	A	7232	641	874	KYPTPGRDLRMFITGLSERL*EI TSLLKRSITGDKYSLRPLTANSV TSVTHFSFGRVALKSLSSVRV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSIRHKSILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQSMSRKGNCCLDNAVVECFFG TLKSECFYLDEFNSISELKDAVT EYIEYYNSRRISLKLKGSDDN
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFSEKQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRRGGHEAPS GPGEDGMDAPAIAAGTFSPREA STLPVQVS*VCRNCCSRDVPK ATRVPL/EKLAGPLRHPLFMLF QTCLHLSLFTTHFADDSRRLQIF SVGFVAGLKQQYRRDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDGLPRFQVRTHFG QDAFCIVIVGNTDRDDVHGGQ RIGEREFQHHPNPLWRRFFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSIRHSKSLILTSI/HVLHSDQGWQYRMRRYQNILKEHGIKQSMSRKGNCLDNVVECFEGTLKSECFYLDEFSNISELKDAVTEYIEYYNSRRISLKLKGLTPIEYRNQTYMPRVNCPFLDTRLIPDIGGVVRARAIKLLNDTDMAIIDKRRPRANVSQVMHIIGDVAGRDCVLVDDMIDTGGTLCKAAEALKERGAKRVFAYATHPIFSGNAANLNRNSVIDEVVVCDTIPLSEIKSLPNVRTLTSEKYTAARFTRDLIAGITVGIIAIPALAMALAIGSGVAPQYGLYTAAGVAGIVIALTGGSFRFSVSGPTAAFVVILYPVSQQFGLAGLLVATLLLGDLFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAAFFVG*AKAPRNGTQ
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPG*QCGQLQKLIGISIGSLRGLGTKCAVSNLDEQEIRTLHCNPNSFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLNQEGSDNEKIALQLSLDDANLRKNELETE/Q*VLVPINFPLTTAFVSHRFRLVNQRLLVQSQVEELQKSLQDQGSKAEDSVLLKKKLEEHLEKLHEANNELQKKRAIIEDLEPRFNSSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKKELQIQVEHYEFQTRQLELKAKNYADQISRLEERES EMKKEYNALHORHTEMIQTYVEHIERSKMQQVGGNSQTESSLPGRSRKERPTSLNVFPLADGT/CTCTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAVPWSERLLPVAGVPRSLGREPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFGFVLRG AKADTPIEEFTPTPAFPALQYL ESVDEGGVAWQAGLRTGDFLI EVNNENVVKVGHRRQVVMIR QGGNHFLFLKVVTVTRNLDPDD TARKKAPPPKRAPTTALTLS KSMTSELEELVDKASVRKKKD KPEEIVPASKPSRAAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAVMTPTVPGSPKAPF LGIPRGTMRRQKSIGKKCGTTP QKLPLGFQTP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRILGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQDLQFAAIGSPLTES LNLHSRQALRDCCWHTHTIPPNP *ICTHARR/WRDCCWHTHTIPPNP DTVWRFPPLSSPVSAAPKQERAS SEPCSWSHWCRCSLSWLSSIPT GCTPVCCSSICLLMATFPMFSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKSCIKIEVPIFVPLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIPDYKWWWS WQVCRRPKQWGWTQGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSLVIHQVKNKAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKPEPKPKKAP AKKGEKVPKGGKRKADAGKE REGYWRSQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAA HAGVAVAASARLPPCAGCGLR AAPLLASSARLRALRRPAGGL WAAGCAPAAGQLCTAAGSAAP GALQRCGGRHGITRPWCAEIAS AG*GSGGSRWGCWPCPLLRT CTSHPLSSPLPFTHGSLQASFSL TRDCVSSTKTLWVWLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSW RS/SPRRRAGTGPVQEEVALKP VLLRHPVQPVIRVKLPRICLLEE AGQLRGVHRLESVEEYYEADG AEWGPPDTAMLESLEPMAGKH SLPQLLDSSSASQPGAIIYS\IL YQIHYLKHLLSSYWGASQWKH TRHTHYFESLW*EHLPS*KYQK REKWADLTRSLENP\GQQPRDS WEP SGFWALPQAGDSCQTSQSP RKPTGPPKPSPPPEEGRLLR/CPT MPVMRKSLE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEVALYM FLQNPDEAVLVAMSCFCHLCE EADTQCGVDEVSVHNLLPNSN TFMEFACQCDVNSPPVGPVSE HKGSMISVMSSEGNADTPVSK YMDQLLSLMVCNLEKVG LQIP TNDKDLVLLTDTNTQFVEQTL DIMKNLLDNHTEGSPEHLEQAS IETMMLNLVRNKMVEYLTDW VMGTSNQAADDDVKCLTSRI/D HPGGTLL*GQPRPELPAGLPRQ PASPGPRHPGASCGWPRAPPDS APGGPGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPATLPWSSVTDGTSYSA GRRERGGEGEGRGRRVRVADH RSALPRTGPGQSEEELANMQGL \\VERLERAVSRLESL\\SAESHRPP GNACGEVNGVIA\\GVAPSRGKPL HKLMDSMVAEFLKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEKI\\ KEIQTFRQRE/RTRGSNMFNHLA VSESIPALGW\\IAVSPKPGPYVK EMNDAATFYTNRVLKDYKHSD LRHVDWVKSYLNIWSELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGPGPLPPPPPLPPGPP PLFENEGKKEESSPSRSALFAQL NQGEAITKGLRHVTDDQKTYK NPSLRAQGGQTSPTKSHTPSP TSPKSYPSQKHAPVLELEGKKW RVEYQEDRNDLVISETELKQVA YIFKCEKSTIQIKGKVNSIIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNILIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELERLQKEEEERKKRL QLYVFMRCIAYPFNAKQPTD MARRQQKISKQQLQTVKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRSLEID GLSKETVLSSWMAKFDIYRG EEDPRKQQARMTASAASELILS KEQLYEMFQNILGIKKFEHQLL YNACQLDNPDEQAAQIRRELD GRLQMAHQIARERKFPKFVSKE MENMYIEELKSSVNLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVILTCQ LQWQWQHGGVHAHQLWQLA SGYRDACFCVSTYSSGPSEFPGP TLGTLNELAIDLEERKHRRKAK VWKGEGLLRSPRQSLAFRA VLASRGTRSCHVSPYLGVS GAL SSPNPHPSTTGAGPIPPVQRWGL PQ!NQKNREIAIPLTGMSTHLR RGCKNMSRFSPSLHCCTTPISTN FTDPGSHCKGAHGDICLLIQNL KGALPMSINRSYFNAHPLLQISE AVTFKDVAVVFTEELGLLDPA QRKLYRDVMLENFRNLLSVGN QPFHQDTFHLGKEKFWKMKMT TSQREGNSGGKIQIEMETVPEA GPHEEWSCQIQIWEQIASDLTRS QNSIRNSSQFFKEGDVPCQIEAR LSISHVQKPYRCNECKQSFSD VSVFDLHQQSHSGEKSHTCGEC GKSFCYSPALHIHQRVHMGEK CYKCDVCGKEFNQSSHLQTHQ RVHTGEKPFKCGQCGKGFHSRS ALNVHCKLHTGEKPYNCEECG KAFIHDSQLQEHQRIHTGEKPF KCDICGKSFRVRSRLNRHSMVH TGEKAFCRCDTCGKNFRQRSAL NSHSMVHIEEKPYKCEQCGKGF ICRRDFCKHQM VHTGEKPYN C KECGKTFRWSSCLLNHQVHS GQKSFKCEECGKGFYTNSRRSS HQRSHNGEKPYNCEECGKDYK RRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	1	2692	MDPGTLQASASQGPTAINPCDYV LKRRNIQTSWQRLTPIIKWHVYI LMIGPGEKEAGRNLGIFGKWTP FPKIPAKRLRESNCPVDAQEIW LPQAFREYLGRRGNFGPGRRTC EFWEVESICSVESWELWLRQA DSGDSGKCSPDACGIIDTSGLR AGHCYLTRLWHVSGRIPPSFKL HHPGVCKFPKVGGKMTTFKEA VTFKDVA VVFTEELGLLDPAQ RKLYRDVMLENFRNLLSVGHQ PFHQDTCHFLREVEKFWMMGT ATQREGNSGGKIQTEMETVPE AGTHEEFSCQIWEQIASDLTR SQDTTISNSQLFEQDDNPSQIKA RLSIHVKTETSEGRTCKKSFS VSVLDLHQQLQSREKSHTCDEC GKSFCYSSALRIHQRVHMGEKL YNCDVCGKEFNQSSHQIQRI HTGEKPFKCEQCCKGFSRRSGL YVHRKLHTGVKPHICEKCGKA FIHDSQLQEHQRIHTGEKPFKC DICCKSFRSRANLNRHSMVHM REKPFRCDTCKGSFGLKSALNS HRMVHTGEKRYKCEECGKRFI YRQDLYKHQIDHTGEKPYNCK ECGKSFRWASGLSRHVRVHSG ETTFKCEECGKGFYTNSQRYSH QRAHSGEKPYRCEECGKGKRYR RLDLDFHQRVHRGEKPYNCKE CGKSFGWASCLLNHQRIHSGEK PFKCEECGKRFTQNSQLYTHRR
7249	37617	A	7303	1	585	KRTAISPDKAFETRQDLNEEEA AQVHG VKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAAL*PIQN YQANLVNTFPYSNNSGGRG/RL MKTV/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQTGRSPQKEDRIPMADE YY
7250	37618	A	7304	1	366	

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7251	37619	A	7305	1	1265	RYPGIPGSTISSLVEEHAPPSW EPQHQNVEATVLDVSVLRPSM GNFKSRKPKSIFKAESGRSHGES QETEHVVSQSECQVRAGTPAH ESPQNNAFKCQET\VRL\QPRID QRTATSPKDAFETR\QDLNEEE AAQVHGVKDPAPASTQSVLA\D GTDSA\DPSPVHKDQGNEADSA PEDLHSGVTSRLLL/YHITDGDN PLLSPRLFPLSGQSQRFNLDPE APSPSTQQFMMPRSSSRCSCG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAAALTCLKERREQLPPQE DSKVTQDKNLIKPLYDRYRII KQILSTPSLIPTIVSQDTCMLLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAPAAGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISSRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGRLGS*KAQEVA QDPGSDEGRGRLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSIHVE VAELEANLPCTCKVHFDPNKL HCFQLTVTPDEGYQQGKFQF ETEVPDAYNMVPPKVKCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLSRK*CSAASIFSG SSKFKRSVNKEFNPTTSFNVL VGAQVPVSIECSLNKLRHISPVS VIVGVPSLVQAFHGRHHVV RIRELQFQTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	



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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGGEAN LVDVSGGLETESSNG\KDTLEG AGDTSEVMDTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDIIPFIDKYWECMTTRHRPGK TTWPNNIVKTMSKERDVFLVK EHPDPGSKDPEEDYPKFGLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGGTTGTTKKARSDPLFSAQR LPPHGYPLEHPFNKDG YRYILA EPDPQAPDPEKLEIDCWAGKPIS GDLYRACLYERVLLALHDRAP QLKISDDRLLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMPP DTAARLGWSQPLGNLQAPLGY DKFSYSWRSKKGTFKHQSIGKH YSSGYGQGDVLGFYINLPEDTE TAKSLPDTYKDKALIKFSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIFEGVYF PAISLYKSCTVSINFGPCFKYPP KDLTYRPMSDMGWGAVVEHT LADVLYHVETEVDGRRSPPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTRLSVRPVGPAATTR SHALGPRPGARSSFRLRCELRR CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEAF AGIRSSHICYICPHAPVRPVTLN MNVAMPSPWFDIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRILG\GFSQGGALS LYTALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLLKTLVN PAN VTFKTYEGMMHSSCQ QEMMD VKQFIDKLLPPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLKSKHT AQMGLVLTANESQPLVHETAL KNKKPQSWFPNCPVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGIRNG*KLLSSFFG QQVRT**R/CSELTpkQEFFKGS ESSNRTSGGLFGVVPGAAETGD VCVYTFKELEGQTSDEEGSRLE NDFLEITDEDKKKSTKDRYDKY KEVGEHPPLSSSPVEHEGVKLG QKSYRCDECGKAFNRSSHLIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRTHTEKPYECSECG KAYRHSSHLIQHQRHLHNGEKPY KCNECAKAFTQSSRLTDHQR HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRIHTGEKPYECS ECGKAFSRSSGLISHRVHTGE KPYSCECGKAFNQNSQLIEHQ RMHRGKKVYKCKEKGKAFGLS KCLIRHQRLLHTGEKPYKCNECG KSFNQNSHLIIHQRIHTGEKPYE CNECGKVFSYSSSLMVHQRT TGEKPYKCNDGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQRTHTGEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFSLSD LKQIKVFFPGGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGGSGGSGAGGPAGRG LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLEIMKEFKSQSIDTPGVIRRV SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLNISPLTSQENSH NHGDGAEDFKQQVPYKEDKPQ VPLESDSVEFNNAISYVNKIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRMSEEEVFTEVANL FRGQEDLLSEFGQFLPEAKRSLF TGNGPCEMHSVQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDLKDGLFTIPLAE QDCEWFAFTIPVVNNLQPAKRF HCFTDGSNNGKASYSGSKNKV FQMSYTSQAQKAEKVAVIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRAHTPLPGPL TEGNQMADRLVANAISSARHF QQHLL/THSHPPGDRSRSCHRW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFTHTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK F\EGLEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFBHWKVLPOGPNQQPIWI PSRYLKPYHKPDAAKEEIPESQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTA FNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLEECALGKKSLEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVRICFAVMGIP ASTTT/DNAPGYTSQALATFFS MWNKRITGIP/NSQGQAIVER MNLSLKQQLQKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSGVAPSKPARSAAVDL CCTKAVSLLPGEPQKVPARVC GPLPAGTVGLLLGRSSLSLKEV QIHTGVDSYKVEIQIVVSTSV PWKAEPGERIAQLLVVPYVGT GKSEIKQTEGFGSTNKQGKAAY WVNQITDKHLTCEITIQQGKFK GLVDTGADVSIISLQHWPSMWP IQSTQFNIVGVDGSSNGKASYF GSKCKVFQMPYTSQAKVELVA IIEVLTTFDMPINVISDSSYVVHS TQLIENALQFHTDEQLMTLFT QLQTAVRSRMPFYITHIRARIH TPLPGPLTEGNQMADECLVATA VSNAHFHNLTHVNASGLKCR YSNTWKAIAKAIQRRPTCMV HSSSFTGGVNPQGLEPNSLWQ MDVTHVPSFGRLAYVHVCVDT FSHFVWATCQSGESSACVKHH LLQGFVVMGIPASIKTDNVPY TSQALATFFSMLNKRITDIPYN SQDVEADANADVGVVDVADA DVDAEEVFTDADADAEDVDVD EDADAERLRCNADESDLDLD VDAEMDADVDTNLDVDAVD VDVDADADVADTDVDVDTG LNLEADLDLDVDADVDTDADV DRDADVEVAVDADATVNADV DYVDVDTSD
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

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7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAAHDDYCV WYSLQRTSPEKNERVRQMRPV CDCQAHLLWNRPRFGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHHRHLVET SLGEQVIVPPVDVESC PGAPSV CDIQLNQVSPADFTVLS DVLPM FSIDFSKQVSSSAACHSRRFEPL TSGRAQVVL SWWDIEMDPEGK IKCTMAPFWAHS DPEEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLLVRN DCVQIWCEMISHSGFDLHFS DQ*/WMSISSC/DFLAA*MSSFEK CLFMSFAHFLMGLFVFFL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVTLTTKVCSFTPEASETTNPPG GTNNSRRTALRAVALTAKVRS FTPRGSAASFLKS VRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAAARKTVG VQGVGYSLPRKLCPLFSRTTYP HTSLRKDCLES DTTAE
7318	37686	A	7372	2	394	HLFIYLLVLLWCPGW PQTAG LKGSSCLSLLSNWNYRPPL*AL LLGTQKLPRVWNFIMVRRIQDG VKPSVSIAEREMKSRKSAASLL SQRDHEPTRRKKLRTHPNIRRN KLQTRHLKSCNTHCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQHVWSCS FLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPSWLHLVD PAPGLQ VELPASPTRYAHTPQPLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVGCLFTLMVVSFAV QKLFSILIRSHLSILAFVAIAFGVL DMKSLPTPMS*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMMLMDRKNQ YRENGHTAQGNL*IQCHPHQAT NDFLHRIGKNKCLASNM
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFVLVLLIEMLCQFW IFPAFSCRHLVL*ISLYTLL*MRP RDSGMWCLCSRWFQRTSLFLA SFRYPSSHSGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RRIK*T**KMIK GI/VTTDPTEIQTIREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPIGTSEIEAIINSLP TKKSPGPDGFTAIEYQRTNDKN HMIISIDEEKAFDKIQQPFMLEM LNKLGIIYGYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLARAIRQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSSENTINT STQIN*KI*KKWIHSSHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTSNYTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTKTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYP AV*GVSVP LLGGASQL GCSGVRGQGPT*GGS LPVLRSP AACWENHCSLQSCQTGTFKSA EVTAVFLFVCALPPEVEPT EAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGCGGFVKSDVEINYS LI EIKLYTKHGT LKYQTD CAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVLSKGQPL GPAGVQVSLRNTGT EAKIQSTV TQPGGKFAFFKVLPGDYEILAT HPTWALKEASTTVSVTNSNAN AASPLIVAGYNVSGSVRS DGEP MKGVKFLLFSSLVTKEDVLGC NVSPVPGFQPQDESLVLYCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVS LGVPCPAASAAASGD ASR*MATGRGGGGGGV AALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCVKRGFC*HH*HEGCQ SRLLLRCLLCSTAI
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7361	37729	A	7415	984	3112	MWQETFFRMENLQLIILILGSP SQLHFPVIRNNQGWTLYHQWP HFLNRFSSRLSNSSLLNQLKFTC ANCKKPLQKGQTAYQRKGSAA LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFCS\TSC LISL/YEEQQNP TKG\ALNKSRTCICGKLTETHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPSKGA GNNVLVIDGQQKRFFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTTCTGCRTQC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCVAKFQALSMQSSPNGQFV APSDIQLKCNYCKNSFCCKPEIL EWENKVHQFCKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCEGCKLLYKQDFAR RLGLRCVTCNYCSQLCKGGAT KELDGVVRDFCEDCKKFQD WYYKAARCDCKSQGTLKERV QWRGEMKHFCQDQHCLLRFYCQ QNEPNMTTQKGPENLHYDQGC QTSRTKMTGSAPPSPTPNKEM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDDTWRTYVVPVPI VPVYIPVPMHMYSQNIPVPTTV PVPVPVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMTD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDGLWLPCG AAGAGGLQSARSYGTGVEASV AEHPW/CAPGGCMAGCGSLAA AASPLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRR SCSSEGERIAQLLLLPYLKLS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSIINQWPQHWP QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	



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7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGSRPL LPRVRGKRHLPRARLARQCQAL SPWGFRCFRNHHQTGFSLAGA NQRGPLAATLSGPGGEGQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGADNIIPSCALPRIETELM GKFDEGKLPTDPLMLGLAIET VAHDYDVVIDSAPNLGIGTINV VCAADV LIVPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPA VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMLKNVVRVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIWEPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPAVRILLTKYSN SNGSQSPWMEEQIRDAARFPV GKPVVPAALMNRPTRRGEAVC VLGARVVFLTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDDTSGTVV/RRPFP PVIGVV FHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNPDQG TASMYHGWWPDLHIHAEDTLL PFY\DPHMLRLAIETVAHDYD VVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEPAVRILLTKY SNSNGSQSPWMEEQISDALRIS QRRNISSKFIQSACITLTTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCN SPIRSRSPLIIRPRASITLILVSM MRMVRATISCAILVSRCPAISP PLCTAFFRPICAAGVPVFTLFTT TP*SLPLLLISAPSMPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNPSGLGMILM *SRFIVFTKLSAIPLLSGLRTAVF FGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVMMAAGIFLIMCG VWLGGFVLDPTKSSGYLIVDI YNEIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMVSLLSR PLKLIRSPYIILSAT*VIGQIMPQ FITSASGLGMLLMVPLFPTLVSL GVSRLSAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHA HNPVASRVILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTDTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLAVCRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHLKSTEYFFSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFFETNENKDDTYQ NLWDTFKA VCRGKFIALNAHK RKQERSKIDTLTSQLKELEKQE QTHSKASRRQEITKIRAELEIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNLIDAIKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPRL NEEEVESLNRPITGAIEVAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILPNSCY EASIIIPKPRDRTTKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRAKDNHMIISIDAE KAFDKIQQPFMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKE KEQSWRHHTT*LQTILQGYSNQ NSMVLVPKQRYRSMEQNRALR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSCRNYHQSEQATY KMGFNFHLLI*QRANIQLQ* TQTNLQEKNKQPHQKVGKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQE QTHSKASRRQEITKIR AELKEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPIGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEKA FDKIQQLFMLKTLNKLIGDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITI QDIGMGMDFM SKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYA AKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCW\WINWMKKTWH IYTM EYYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLENYMKNAEASRADAINW KKG Y/LVMEDKMNMKREGKF REKRIKRNKQSLQEIWVYKRP NLRLLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIQEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLKL FQSIEKEGI LPNSFYEASIILIPKPGRD TTKKE NFTISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRTKDKNH VIISIDAEKAFDKIQQLFLLKTL NKLGDGTYLKIKRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAIRAIRQEKEI KGIQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIMKMAILHK VIYRFNAIPIKLPM TFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKKKRE KNQIDTIKNDKGDITTDPTTEIQIT IREYYKHL YANKLENLEEMDK FLDTYTLPRLNQEEVESVNRPI GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLLKLFQPIE KEGILPNSFYEASIIIPKPRGDT TKKGNFRPISLMNIDAKILNKIL ANQIQQHKKLIHHDQVGFIG MQG\WLEVLARA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMTFFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQNRDIDQWNTTEPSEIML HIYNHLIFDKPDKNKQWGND LFNKWCWENWLAICRKLKLD FLTSTYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIGMGKDFMS KTPKAVATKAKIDKWDVIK SFCTAKETTIRVNRQPTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMQI KTTMRYHLTPIRMVIAIKSGNN RAPGGRGGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

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7414	37782	A	7468	965	4421	TWKGTTTSTRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFFSAPHHTYSKI DHILGSKALLSKCKRIEITNYLS DHSIAIKLELRIKNLTQSRSTTW KLNNLLNDYWVHNEMKTEIK MFFETNENKDTTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLELEKQEQRHSPSR RQEITKMRAELKEIETQKTLQKI NESSSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRVLDLAGKL GKQVELTLVGSSTELDKSLIERI IDPLTHLVRNSLDHGIELPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STAEQVTDVSGRGVGM DVVKR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLLTHGIGQF ADVACAGPLLAELDALGKAL KEPARPMVAIVGGSKVSTKLT LDSLSKIADQLIVGGGIANTFIA AQGHVVGKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKSVNDVKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEFPNFRKGTEIVANAIADSEA FSIAGGGDTLAAIDLFIADKNS YISTGGGAFLEFVERLTTLTQLL HDQGYVTQAIGKWHMRETTEP QPQNVGFD DFRGFNSVSDMYT AWRDVHVNPEVALSPDRPAYI NQSPLSKDDVHALRGGDQQAI ADITPKYMA DLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAIAFDVQPGRGDYAGNQRHH NQYNQHQAHS*SWQRCGIGDGL ARFARHNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPDR VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGGLKPV HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVSRMGTRSSYSRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLRLSEMPRKQGDYRTRI/C EIRGRVEQRVGYTIEQINHMRD VFDRRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTSGTVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAAARHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDEGNYTSGDTHLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSSAKKRDAELANG ALGIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSTLGPYKPLNKTGLVLQ MGLDPNTNIQTDDTSGTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRRSKISLQTGSQIER AFLQAPVEER*SMACSK/YSSHP DLTFTNFIRFTYNIF*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKHIEKLQC G/ECSQTTQQAWEQSAHQHIR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTAVRRCSQ TTQQAWEQSAHQHIRH*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSSICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRFPQDRKAGECLLHEY EDLVPIRDLRLFPGGRYLPRA KHVAPSEPDPDIRVGPWSQSDY QTDDTSGTVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSCLGTAQTDDTSGT MVQY



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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGLDD/HRRKILNTAYRSR KLQASC*KSAERAWKTKASLT VNGWMKKIRCKTPMCRPTVR* SIRILIITTPRVPSPRS*LKPPTS CT*CIFTQPTRC*KMTTCWRCS TSRKSSGHVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRK RNIWCAPAAICKRSTTLITSF*K PVKMACPFICAMLRRLARRC AGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGRVPKDSKDFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGE RKTYQNVQQFIDEGNYTSGDN HTLRDPHYQNTYIRLEPFKINVL EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLSCTYRKRYRVL VGELGDEQMAALSRLGNDYRP TSAYERGQRYASLLQNEFAGNI SALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAF*SASPD RADSSPG*EK RATT D/SRQFGGVDTAGNNLT*NIFRI SQRRNISSKFILQ*ACITLTTFIST CWAIIVTQSG/LMQPSAHHPAR QPEHDIAFGKCSSSVSVHLA/LG SGSEGATCFARGR*RPPGNSLN VSRMGTRSSYSRRHSPAFHRS TPDAPTGH*NCCS*L*CHSY*QR A*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVSEFLHQDTWVGNAV ERLADALSQQNVTVIKSTSFDD GFAILSSNEAIDCLMFSYQMEH PDEHQNVRLIGKLHERQLNV VFLLGDRKALAAMDRLLEL VDEFWILEDTADFYRRTAPVA RE*TRYPPGSCWPPLF/TAPLMK YS\DIHEY\SWAAPGHQGGVGF TKTPAGRFYHDYYGENLFRTD MGIERTSTAVSLLDHSGAFGQS EKYAARVFGADRSWSVVVGTS GSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQIKEEDVLK FLAAGTHLGGTNLDFQMEQYI YKRKSDGIYIINLKRTWEEL\LR QPRA\MVPIENPAD\SVISSR\N TGQVCGTVRAVLRFLAATGAT PIGG\RTPTGFTN\QIQASLPGS PRAFLWVT*PPGAEPALSRAS LC*PFLPLALVNP/SPLRRYVII AIPCNNKGAH\SVGLMWWMML AREV\LRMRGTISREHPWVEVM PDLYFYRDPEEIEKEEQAAAEK AVTKEEFQGEWTAPAPF/TLA TQPEVADWSEGVQGAPLVPIQ QFP\TEDWSAQPATE\DWS*A\P LAQATEWVGATTDWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSL STMIKWASSL*REIYSTKCPQEK AGKIQN*HPNITIKRTRKARANT FKS*QKARNN*NQSRTEGNRDT KNPSKN**/MPGAGFLKGSTKLI DR*QD**RKKERRIK*/IAIKNDK GDITTNPTIEIQTIREYYKHLA NKLENLEEMHKFLDTYTLPRLN QEEVESLNRPIGAEIV*SIAY QPKKVQDQMDSQANSTRGTRR NWyHSF*TIPINRKRGNP*TLM QKSSIKYWQTESSSTSKSLSTMI KWASSLGGKAGSIYANQ

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7453	37821	A	7507	1	1577	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLRLARLIK KKR EKNQIHAIKNDKGDMSTNHTEI QTTIREYYKHLYANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQ/IEQSWRHAT*LQTLQ GYNNENSMVLVSKQRYRSMEQ NRALRN NATYLQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVYVPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*A W MFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYMCIFIQSIIVGHLGW FQVFAIVNNVTINIRVHVS L*QH DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFHNG*TS LQSHQQC KSVPI SPHPLQHLLFPDFLMIAIL TGVRWYLIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPE SLGRIQSSV*RE IYSTKCPQEKAGKIQN*HPNITI KRTRKARANTFKS*QKARNN* NQS RTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSSGL*FSLK RSFTSLVSCIPRYFILSE AIVNGS SLMIWLSVCLLLVYKNACDFCT LILYPETLLKLSISLRRFWAETM GFSRCTIMSSANRDNLISSFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEGRKRRQKRLP LETLTKDEEVLAAHRQEIEVAKA SPSKGNIIHFGYKGV EYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPLQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWRSPYFFSPKPVPP QLLGGQPAAHSRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPD METPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLRTSSPGGAFRTRTSSPLSG SSSSSSSSSRRGSQLNVSE LTP SSHASALRQQYAQQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHHPAHHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRKRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSPRDVLV TKSASELTQWTEGHSGDTPPT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTSLDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLLVMALSS LIVILLVVFALVLHGQNKKYK NCSTRQGISTMEESVTLDNGGF AALELSSRHLNVKSTFSKKNGT RSPPRPSGGLHYSDEDICNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRVTV*SLSRL SLICYTFCIGAPSHLSVGSLIAT SFIVSNRPCRAPYVDTIYRLPSP LRLAGHRTLPLKPSFRRSPPLL YYPSRPPAHYPLSPSEPNNRY TMALTAVPYPYTSPLQAFPFLH SRIPQLQLFLLTNSFTSRTPVEP VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSVAITTAADRRTAAGAIS YPTK*S*SEPIQEGQPEEQ/RAN YPNGTYPTSLRHLEWLRSAL SVKARF/YHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFFIEKRERLKNVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLLKWDGKTGWDIPD YSAAPPEAVPSLNNPQTFSEQK LDEALYHGAVLRVRPKAMTVA VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAA KLMWLHRHRWLKCKSARRPQ YQSGYTDDRHSRSVKASPTAG LPSLTHEQQQKAVERIQELMAQ GMSSGQAIALVAEELRANHSGE RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFKSLVLLDKPGRQELIDDL NKRTDNFLTDSGISVSDWIDAA TWEVFSSLRELELLGIKNIRLAS QDLHGVLSSSETVAEDIWCRILD TVTRKGEHSRRIHSADDKSYLR PDLLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSRGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTGGGKKGSKKKVVDVDFS KKD/WL*YVKHPAMFNIRNIGK DVGSPTQTGTKIASDGLKG\RV FE\VSLADLQHDEVAFRKF\KLIT \EDVQGNCLTNFHGMDLT\RD K\MCSMVKKW\QTM\EAHV VKT\DG\YLLRLFCVGF\TKKR NNQIGKPF*AQHHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKVQAEVALDNGELVG YYSKASAGDTQANRVWSGPPA NSNRPAAGPERNTININKKDIN TKTPSVGHRHQRPKVDKTTKT RKTRAELKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTKPTPITTRGGGFLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIVH
7484	37852	A	7538	502	648	

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7485	37853	A	7539	1	1169	PPLLIPRQTGSGVDLQQTPTDLQ LRVLTVRRKTNKQKGHPHQN CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQEEELTILNIYTPN TGAPRFIKQVLRDLQRDLDSHT IIVGDFNTPLSTLDSSKRQKV DIQELNSALYQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCNRTIITNCLSDHS AIRLELRIKKLTENRSTTWKLN NLLLKDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTGKAAC RGIFIAINAHKRNQKRSKMDTL TSQKLELEKQEQRHASKARRLN QEEVESLNKPRTGSEIEAIINSLP TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	1	404	MDEFNNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNI PCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LTELEKTTLKFIWNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSL FNKWCWENWLAIW RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTKWEKIFTTYSSDKGLISRIYN ELKQIYKKKSDNPIKKWVKDM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPPSLL IPRQTGSGVDLQQTPTDLQLKV LTVRRKTNKQKVHHPHQNPICTS PSSKTKELEKQEQTHSKASRRQ EITKIRAELEIETQKNLQKINES RSWFLEKVNKIDRLRLARLIK REKDDQIDA KNDKGDITTDPT EIQATIREHYKHLYANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWSVPPTNSNRP AAEGPDC*KEN*QKGHPHQNP CQSPSSK\PKVDKTTKMGKKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKYLLKDLMEKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNMKREEKFREKRI KRNEQSLKEIWDYVKRPNLPLI GVPESDRENGNKLENTLQDIIQ ENFPNLARHANIQIEIQRMPI RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLI LTAGKFIALIAHKGNQERSKIDT LTSQLEKEKQEQTHSKPSRRQ EITKIRAELEIETQTTLQKINES RSWFFEKIN\KIDRLLARLIKKR EKNQIDA\KNDKGDITTDPTIEI TTIREYYKHHYANKLENLKEM NKFLDTYTLPRLKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRRKKKSTDTIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLLIPRQTGSGVDLQQTPTDLQ LRLLTVGRKTNKQKGHPHQNP CTSPSSKTKEIRTTIREYYKHLY ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNNRL*N*GNN** LTNQKKSRTWIHSRILPEVQG GADKQRAKHE*TPHNCFKENK IPRNPTYKEHEGPLQGEQTTS QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCPR*FIDSPSPSSYQ *LSSQN\GKNYFKVHMEPKKSP YCQVNPKEQSWRHHAT*LQ TILQGYSNQNSMVLVPRQYRP MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGGSIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPYIPH LFGLQKKMDLKG VFKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPICMSPS SKTKDFKPTIKRDKEGHYIMV KGSIQQEELTILNIY



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7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQ\ELRIKKQTQNRSTTWKLNNLL NDY
7491	37859	A	7545	21	428	DKTSRGTIRQQHLLFTNIRCSAA SAADTQANRVWSGPPANSRDP AAEGPDC*KEN*QTERSTPKS HLYVTIIKDQRNKIPKNPTYKG CEGPLQGELQTTAQQNKRRYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	1	1650	
7493	37861	A	7547	1	946	MAMPPLLIPRQTGSGVDHQQTP TDPQLRILTVRRKTNTQKGHPH QNPNCSTSPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMLQKTMAQELQLDK TTLNFIWNQKRACIAKTILSKK NKAGGIRLPDFKLYYKATVTKT AWYWHQNRIDQWNRTEASEI MPHIYNHLIFDKPDKKKQWGN DSL/K* MVLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGG T*NHRNHRRKPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKELL/RQQKLPSE*TRNL QNGRKFVQSIYLTG
7494	37862	A	7548	189	380	QTERSTQNPICSTSPSSKTKGR* NHKDGEKTEQKNWKL*KAERL SSSKGMQLLSSNGTKLDGE
7495	37863	C	7549	1	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQQKGHP HQNPICSTSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIIGINSRNHHGPQ*P ALQKMPAS*VTEIMNNHFLFCF RKGKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSPDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVP VNSLVCLGKILEYLDKWLVD GILPFLQQIPSKESA VLMGILGIY KCTFTHKLGITKEQLTGKVLPH LIPLSIENNLNQFNSFISIIEML NRLESEHKTKLEQLHIMQEQQK SLDIGNQMNVSEETKVTNIGNQ QIDKVFSHIGADLLTGSDSENK EDGALNVPPAGAKPTQQRPTD MSALNNLFGPQKPKVSMNQLS QQKPNQWLNQFVPPQVSPATG SSVMGTQMNMIGQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS *LLEGKRTNRKDINTKNPSVRH HHQRPKMGEKTEQKNRKLKIR APLLQQRNTAPH/HAMEQSWM ENDFDELREEGFRRSNYSELKE EVRTNAKEVKNFEEKLDEWIT RITNAEKSLKDLMEKTTAEN YVTNAQAPVANATN*KKGYQR WTK*MK*SEKRSLEKKE*KEK KQSLQEIWYVVKRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVMWSFLFVSFSPNSQD PQLQVCWSLLEVHSRCLPGYQ QQRIRLEPFKINV/T*ADHEAYR KTAVRRCSQTTQQAWEQSAHQ QHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKA RNN*DERRTEGNRDTKNPSKKS VN/RRSWFFEKFNKIDRRRLARI KKKREKNQIDAINKDKRDITD PTEIQTIREHYKHLANKLEN LEEMDKFLDTYTLPRLNQEEVE SLNRPITGSEIEAIINSLPTKKSP GPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPD TKAWQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPAN SNRSAAEDPDC*KEN*PTKKGHP HQNPICTSPSSKTKARQANIQIQ EIQRMPQRYSSRRATPRCIIVRF TKVEMKEKMLRAAREKGQVT HKGNPIRLTADLLVKTLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKSFTDKQMLRDFGTT RPALKELLKEALNMERNNQYQ PLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSSTTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESGTPTFEPASSPPRGSR RDFQEGQSWVRGWQL/WTSTV GCSPHIFWCVDCECTDCEGYLK GHYVAGLRRSFRLGCRERLGGS QEGKMSSGAESPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGEYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLRTSEFKPYIIFVKPAI QEKRKTPPMSPACEDTAAPFDE QQQEMAASA AFIDRHYGHLVD AVLVKEDLQGAYSQKVVLEK LSKDTHWPPLVIPRQTGSGVDL QQTPTDLQLRVLTVRRKTKKQ KGHPHQNPCTCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTKLENTLQDI MRENFNRRARQANIQIEIQR PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPIFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITRPALQEL LKEALNLERNNNWYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYS IQGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTCS*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPRCV PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSENILTVHEQANVESLKETQ NCKDLDEDANGITDEGKEINEK SSQLKNLSELQDTSLQHDDEEE STVISVSEDMNSEGNVDFECDT KLYTFLSSDESQQSENEED TLCFVENSQGQRESLSGDTGSLS CDNALFVIDTTPGMSADKNFY EEEDKASEVAIEEEKEEEDEKS EEDSSFDHDENEDEFSDEEDFLN STKAKLGRLTPHMAGYSSETKL PEERPGSNICCPISAVLQPPLI PRQTGSGVDLQQTPTDLQLRVL TVIKKTNKQKGHPHQNPICSTP SSKTKDRSTRQKVNKDIQELNS ALHQADLIDIYRTLHPKSTEYTF FAAPHCTYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNLLNDY WAHNEIKAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQKLELE KQEQTHSKASRRQEITKITAEL KEIETQKTLOKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTIEIQTIREYYKH LYANKLENLEEMNKFLDTNTIP RLNQEEVESLNRPTGSEIEAIIN SLPTKKSPGPHGFTARFYQEYK EE/PGTIPSETIPINRKRGNPP*LI L*GQHHPDTKAQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEAYPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATVLQPG*QSEIL*KEERE REREKKERKKERKKERKKERK KEGKQ*RKGGRRKKERKEKEIK KERRKGKKEKKEEKRRKERK KERERKKRRKEGRKKEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGPCCPAQPQNTAPPIPE A*TPAMAERGPATAAGQLEFT GGALQTLFAWVSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDRFGRRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPCHCQVNPKEQS WRYVKQSKKIAVYAERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERSS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKELRDERTSFSSEFNQ LEERVSVIENQMNMKREEKFR EKRVKRNEQSLQEIWVYVCRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRLDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTPLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKQAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSPRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLILSAPYDHLH
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVPNLPISIPARITKG RMGTLRLRLGLTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAE LGPNSSSASAPPPYNLFAS PPHTWSGLQFRSVTSPPPPAQQF TLKKVAGAKGIVKRLKTD TAR SPWKTPRPSRTPSFRKAERTKG LLKIH LTKLSHQLKKDWTILLP LSLLRIQACPRNATRLATGQLG YPFISQSYVLVNGFQTVEDLCE AADLRVSVADLRVSVTALKVA RLELFVPPGGLVVS LASAVKLQ TFAVLQLIKARWDWGTLEQG AALIGEARDAQEPTGEGVGGSG MAGCRSRDLPRGKA AKARREI ERSAGLTIKKERCIRNGYSKEK MKLIVVSHGLHVNDLQHKLTL FTKET YTYLARDSEKQKQGYL AGLEGAHANRVNQISDNLVV KTGALPPPYRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGGQA APNPYALLSQIPEEAEWFTVLD LKDDFFCIP/VHPDSQFFAFEDP SNPTSQLTWTVLPQGFRHLFG QALAQDLSQFSYLD TLVLCGVL KSPHIVWELNQIDTIKNDKGDIT TDPTEIQTTIREYYKHLYTNKLE NLEEMDKFLNTYTL PRLNQEEV ESLNR PITGAEIEAIINSLPTKKS PGPDGFTA E FYQ RVADV KLREE KDENMLLVPLSDLLYQVHAPIP QLPEVLAANSPTCHLDPPTITES
7528	37896	A	7582	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVD FCDRA VWLPRMWG YPLALPGEMRKLYTVRMAGR D ILAKAGAIH L NIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSYDWGALFFSHAFLIM LESPTTLLGRDILAKAGAIHLNI GEGTPVCCPLLEEGINPEVWAT EGQYGRAK\NARPVQVKLKDS ASFPYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNGQWRLVQDLRIIDE AIVPLYPVNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVKSKQAQLCS QQVKYLGVKLSKGTRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKGGKGRDIL AKAGAIHLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKHFRFSRTSCF QSGNNPYLKPHLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLLSEQEC*VD *VLALAVPQPLLSSTTNLYLKNS MVTWNGLPTPWSPCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTEEPSA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKQEKGAGLLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSPCNTPTLAVQKPNG QWRLVQDLRIINEAVVPLYPAV PNPYILLSQIPEEAEWFTVLDLK DAFFCIPVHPDSQFLAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDLTVLQYM DDLLLVTHSETLCHQATQALFN FLATCGYMVSKPKAQLCSQQ/R YLGLKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTTEVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVLTQIRGMSLQPVAHLTKEID VVAKG*PHCLRVVAVAVLVS EAVKIIQGRDLTVWTS HDVNGI LTAKGDLWLSNCLLKQALL LEGPVLRRLCTCATLNPATFLPD NEEKIKHNCQQVISQTYATRGD LLEVPLTDPDLNLYTDGSSFVE KGLRKVG YAVVSDNGILESNPL TPG TSAQLAELIALTWALELGE EK RANI/YTDSKYAYLVLHAHA AIWKEREFLTSERTPIKHQEAIR KLLLA VQKPREVAVLHCRGHH KGKEREIQENCQAYIEAKRAAR
7532	37900	A	7586	80	678	LCCNMPAAQHRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EAVLSAPSALPSSAATSLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPPLSQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESPKRLPRPGKSFL



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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEGGGGEGEEKKKKKKTEEE EEEEERKK\EEEEEEEEEEEE EEEEKEERTGAGDSSEDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYEESEMDLGTGRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPRQQLNANIGKNFNAAEN HENAKTTTRSSTVGDTHLTA
7534	37902	A	7588	3	191	SSHPVFSPRWVLSHPQSQCYT* GSGAQNLTAAPPFCVCRGDRGN HLRKDTKVEVKRKTCLW
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVTPRSAPRGRAFGATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLGTSSA AFLWSSLSFLCKMGIMIIVSAS GWFMRKLGKKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSGRDST LGPGLLTIGASSPVPLVV*LCA GYFPSLGSARLA AVAKPRGGD QRSAGVGGLSLHAQCPRAGR HPFPRVFSACSRRLRAFFRKG GGACLSNAPDPGLPVPPALCGN GFVEAGEECYCVS\GQECRDLC CFAHNCSLRPGAQCAHGDCCV RCLLKPAALCRQAMGDCDLP EFCTGTSSHCPPDVYLLDGSPC ARGSGYCWDGACPTLEQQCQQ LWGPESHAPAEACFQVNSAG DAHGNCQDSEGHFLPCAGR ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLGLVEPGTQCGPR MVCNSNHCHCAPGWAPPFCD KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPAGLAWC CYRLPGAHLQRCSWGCRQGPC VQWPQRWPTQGPPGRRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEKENYKNFFFEAFSKNLK LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAGLDVV YCGLFYFLHFVLKLYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGI.PLNISRE MLQQSKILKVIKKNIV*EC/LFEL LSELAEDKENYKKFYEAFSKNL KLGIEDSTNRRRLSELLRYHT SQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSFAVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGCWRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNP HIGSLTG RVRAIMVGKAKWKPLELPLPR KIVNQKQYHILGGTVEISATIKD LKDTEAVTPTTSPFN SPIWPVQ KTDGSRMTVDYCKLNQVVT PIAAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSADR DAIWSLWNAAGESQRRPLGF WSKALLSSADNYS PFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKLK WYIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGCWRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFIWPVQKTDGSW RMTVDYCKLNQEENFNQVDR MTHSVDTTQPLSPATHVITQWA HEQSGHGGRDGGYTRVQQHGL PLTKADLATAGKVFKAV*AL N*HSIYGTLSLIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVP PTLRSAGLEFLVPEEGMLPSGD TTVPLNWKLRLLPPGHFGLLFPL HQQANKGRLSPHSRERGTSVFA SSNSQPVTALNNEPAGPNKRDI GKAKGLKFHHPGPHRQERDML E/SML*PWGYPVGKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQPMLPSDFP PLSEEINPMLPEATVIASPKFIAR QDNVDSPQEPPPTPQFSSRPITR LKSQWAPRGPECVIGIDILSSW QNPFIGSLTGRVREGYMGKA KWKPLELPLPRKIVNQKQYCIP GEIAEISTTIRDLKDTGVVIPTTS PFNSSIWPVQKTDGSWRMTVD YCKLDQVVTPIAAAVPDMVSL VKQINTSPGTWQHITHLDVLLW RIYQVTQKAASFEWGPEQEKA LQQVQAAVQA\LCGLGHMTQQ IQWCLRRNGEMCDYILYGL
7551	37919	A	7605	1	608	MAPGMVPIPPPGKYHSPKKLIY STPPKPGTYGISDLSQYPTSAK AEPVPTHKNPRRESPIHSSPSSF TDG/PSPNSPGDARPHPQNKTS RGRPAPRQVRPTTITTPAPPARS PNSAHSPAFRDLPFRAEKGTA ARVPREPHSPAPPKNKGLQPP AGELLQRGARTTLPRILGTAPG PHLPGCSAPPAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPQLRGFPSWLFHSVSI RSPASGHLEFPFARSSSGSGSTS PLSFGAMTTEKQALGGRAAFPP KYK*AQGRAACFVLTSQQQPS WQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPTWC SSNTPEPQSLRAPQ*LQVPVPLQ SRGQR*QPQMP/VRSQPKAP*V QMPPTPSSAKGPHLDGVRVPA ANPE*PTAGPTRAAILRATPAPS LPMPGTNRPSRGNLQDSAPA SDAGWPPTAEVTC/PWSREN PQRNL*AHRPQGPRPVPGTERR NGRGGAGCRQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDDETPQLSAHG/T LAALQEFYAEQKQQIEPGEDDK YNIGIIEENWQLSQFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFSIYIFEY DKRFAME*KE\LIFYDYNPLD LPERIAAHSFDIV\ADFPYLSG\ ECLRKTSETVQV\LTRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNFGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVLKGVHSH/KKKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPEERSPG ETRLDHLCLSIKFP/LTH*VLPM KKIEDNNTL\VPLVNVKANKH\ QIKQAVKKLYD\IDVAKVNTL\I RPDGEKNGICSDLAP\DYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDSCKTSCSYNCSKPRS SWQDQDISSGTGLHSRLTLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLVT TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPTGSEIEAII NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIVPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRLNQEEVESLNRPTGSEIEAI INSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIVPELNSTI SANSTNADTCTPKYVTFNSKGT AQNADSDSAGLEWSLMFCISD KVSGDDDDADA VDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVIVTF GIILPLCLLKNLGYLG\YTSGFSL SCMVFFLIVVIYKKFQIPCIPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLPI YSELKDP\SQKKMQMVSNISFF AMFVMYFLTAIFGYLTFYDNV QSDLLHKYQSKDDILITVRLA VIVAVILTVPV
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYSCLKRANLRD TGLKEEVYKKFQIPCIPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSNISFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILITVRLAVIVAVILTVPV LFFTVRSSLFELGLRKQRFNLW PSIPVVTICILLVINLVGDLHTP P*RIFFGVGSYILLNMLIFILP/S IFFILKITDQDGDKGTQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSF/SYGDEEISKTFALN ERRGEIKIRKLD FEKIVSYQVDI KASDGAGLSGKCTVIIQVVDIN DNAPELTMASFTSPIRENSPETV AALFSIQDRDS\FALRSLDYEAL QEFEFRVGASDPGF\PALSSVAL VRVL\VL DANDSSLFVLFPLQN GSAPCTEL\IPGRAAE PGYLVT QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVLVKD NGEPPRSATATLHVLLVDGFSQ PYLPLPEAAPAQAEADLLTV YLVVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSVPEGPF PGHLVDVSDTRTLSQRYKYEVF LTRGSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPFKSDPF KGADPFKGD PFQNDPFAEQQT STD PFGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLDPFESSDPFSSSVSSKGS DPFGTLD PFGSGSFNSAEGFAD FSQMS/KGKSTPVSQ LGSADFPE APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVVGQASLKLLASDPFGT LDPFGSGSFNSAEGFADFSQMS KTDPQVRSELLK\GTAARLVTR LDPLVSGPHVTR*PELTVALVPD SCRASPDAGSVVGAHL*GLGTT GAADGGTP\NSNRSFVLGVIIIV WSMCQLYLVPPPPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QQMPWDPVWGA RGSPRPSCPGPRKCRMCVVPRV IQHPSLLLPSLVGRRSQPQIWR HPMPAAPPS
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDEAELRTPAAACKL *SECQFRTRVDAVRTMMIP/AFT QVLKSHRQDYL VG NKLSWADI HLVELFYVEELDSSLISSFPLL KVKLLASSVKPVPLPSALRWPA HAVAQNI VTSWLTGGRFIELKT VQILDRLELEKPCIDAECFNT EWSTEFTLLKAWDEYLKAWFA LHLLEAMFQPSDSGKSIFNMS VGYNLEGQPLNPKNYP SQGV P RVLKSHRQDYL VG NKLSWADI HLVELFYVEELDSSLISSFPLL KPHTHVDNTKKGSHPHMCAYT DYVNNPNDRMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGKPKLHYFN GRGR MEPIRWLLAAAGVEFE EKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAE EKDAKIALI KEKIKSRYFPAFEKVLQSHGQD YLVGNKLSRADIS\VELLYYV EELDSSLISNFP\LLKALKTQNP ATLPHG*RSFLQP\GSPRKPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETA IMAEKPKLHYFNAR GRME\PPRWLLAAAGVEFE EK IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMGKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVC\PEE KDAQALPLIQEKTKNRYFP AFE KVLKSHG\QDYL VGPTSLSRGW TFIWWELLYYVEGA WTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSWRMTVGYCKLNQVVTP AAAVPDVVSLLAQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL\PIYRV SRKAANFEWSPEQEALQQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWKWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREAAIGERQETA VGKT ARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAAVSD VVSLLAQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLCFSLPLDITLVHYDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVVIPTTSPFNSPIWSVQKTDGC WRMTVDYCKLTQVMTPIAAV VPDVVSLKQINTYPGTCK\FLG VQWCGACRDI/PSKVKDKLLHL APPTTKKEAQLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEALQQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYSFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLS DPSRHKVGHAQQ HSIIKLK WYICDQARAVPEGTC\ *LNKEVAQMP/MGTTTRKWTAA ALQSLSGISLKDSGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNEIWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHLSFTKAD LATGIVECPICQQQRPTLSPRYG TIPOGQTFILTGINTYSIYGFAYP AHNASAKITIRGLTECLIH HHGI PHS/IVSD*GTHFTAKDVETRIH RPRNQGVVEVAPLTITRSDTL AKFLLPVPTTFRSANLEVLLLE GGTLP PGDPTTIPLNWKLRLPR GHFGLPLPLSQQAKKGVSVLA GVTDL DYQDEFSLLLHNRVTA AFPSLLHSSFAYLDNMIEKANK CHVEGV D HVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLKPFLSDFAGPLH TSIMPTRRFCSKSPT*HTLATAL SQGLS*GT*NEASLTKEKVGKN RCRYSPSYPPSGIREGKAQLCFY THWK



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7575	37943	A	7629	1	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGLE AAASAQLRLRGEEAACRLPLDC GLALRARAAGDHGQAAARPGP GKAASLSERLAADSVFVGTA TVGRPKNAPRVGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSMDTLENVQLKLE NMNAQADRAYLRSLRKFGQLR LQHLEARNHLIQNIPGFSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLGKIKFYFDR NPYFQNKVLIKEYGCGPSGQVV SRSTPIQWLPGHDLQSLSQGNP ENNRSFFGWFSNHSSIESDKIVE IINEELWPNPLQFYLLSEGARVE KGKEKEGRQGPQKQPMETTQP GPLSFVWVAVSPSWLPGQQGP QELPVDGRPLPVHETHTYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISPAPSHPLGSSE TLDIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQ\SL QLSRL*KQAIELREAVEQHKVK NNDLREKNWKAMEALATVAEQ \ACKEKLHSWTQ\AKEES/ERNQ LCLIEAQTMEALLALLPELSVL AQQN\YTE\WLQDLKEKGPTL\L KHPPAPAEPSTFGTWFQV*GEA E\ETQSTICRAEF\DQYRSILGGD GRALLRDLQKSVEEEEQV\W\W AKVGAAEEELQKSRVTVKHLE EIVEKLKGELES\SD\QVREHTL HLEAELEKHMAAASAECQNYA L\EVAG\LRQLLLE\SSQSLRLPP KNRNPQKTEPMSFALGQASS*V KLKSHVED\GDIAGAPA\SSPEA APQPSRDPRA*RTQLELDQKPI PWRMRQTTSRQKLHGSPFE\EA SDLRACSVYKEGFWEKLPHSA APPRSFFRNRRREAF*A*RRDLEK RGRSLTSD\LGRARPRRLQELSE RRTQEQLGKGRRTVKKLQEQ L\EKAEDGSS\SKEGTSVLSFLFG KKKLLFQLYQNALTHSFTIKPT NLHSVYPGPNFPVLREKAHEET SLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY/FVNQTMGN/SCG PIGLFNAVANNQDKLGFY\GP LLNQFLF*NR*KCPPKDRAKCF ER\NEAIRAAH\DAVDKEG\QCR VDDQGEFPFLFCLQNVDGPPSM NLDG\RMPFPRGPMAPSFRTP

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEKSLKDLMEKTM AQELRDECTSLSSRFQLEEKV SVMEDEINEMKQEEKVREKRIK RNEQSLQEIWDYVKRPNLHLIG VPESDRENGTKLENTLQDIIQEN FPNLARQANIQIEIQRMPPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKEIQTITREYYKHLTY NKLENLEEMDKFLDTYSLPRLN QEEVESLKRPIITGSEIGAINSLP TKKSPGPDGFTAIFYQRYKKEL VPFLKLKFQSTEKERILPNSFYE ASIIIPKPGRDTTKKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTNEKNHMIISIDAEK AFDKIQPPFMLKTLNKLIGDGT YLKIVRAIYDKLTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLGKEQ VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TLACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRRFGLENRVT ATRILRFSDRLKKRRTRTRYPTP GSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIAYQPK*AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHIGSMPVP TRTAGPLPFFAGPCR
7587	37955	A	7641	341	504	ILRFSDRLKKRRTRTRYPTPGSQ GPTPRESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQLIALHRLALRELQQAVH AGLPQQAKILFDGGSEIGKIH*L RCAHCPSSRETCSRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIDLLLCEG LNIIFHVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYRAEEN ARRLMEQACNIKVGVTGTTEL Q*DFSLDSL VWSWDSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIR*EKERGKRKWLSTF KNETKRKNGKVLF*LCMSYPQ RLLAGELFQD*HKDVSNLPLSV ENVKNTNSLGRKNKNHKAREN RRLQEASMRLEQENDDLAHEL VTSKIALRNDLDQAEDKADVL NKELLLTKQRLVETEEERKQ EETAQLKEVFRKQLEKA EYEIK KTTAIIAEYKQICSQ LSTRLEKQ QAASKEELEVVKGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQPAPVTQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPPCSLISDCCAIN QRDSVGVRPSKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNSLTPCASRIINMH FQAFWLCLGLLFISINAEFMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPIGEVYFAETFDSGR LAGWVLSKAKKDDMDDEISY DGRWEIEELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFQDGDICGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKCGEDYKLFIFRHKHPK TGVFEEKHAKPPDVLKKFFTD RKTHLYTLVMNPDDTFEVLVD QTVVNGSLLLEDVVPPIKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTKGVLEQEEKEEKALEK PMDLEEEKKQNDGEMLEKEEE SEPEEKSEEEIEIEGQESNQSN KSGSEDEALAEQPREGPGVPGP IPPKRPSRSPPEPRAAKRLPTQE LRGESYTMSASGTARGPSPKER LGLTTKTGEKEVAQGFCREPGL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWVSL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSLEKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYGCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGGS WRPSGGV/DVAAPVRARLALLL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHSSPS RARSPLL CARSL
7599	37967	A	7653	1	177	RPLPSRPHAAPPGHHTISSGPCG HRKFSPKAGDSNTPRTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENPKSK PQPTQR*TRGPWPSSRCRVRSG /THRRPGLFLS*KQ/PSESIGHSR ALSAFTPAEMISTLPPPTSKSPL AARAAPPNG*SPKAGDSNTPR TRSRPRVSCALPPDVRGSWLS

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7600	37968	A	7654	1	1430	MQDTCSEIISPADFPTFSSSLKIR FSTDSPSQIFKKHCHCIQKIVLILLP KNSYTRRLLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREPGPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGSPGPPRAGPRLFAPRPVLS RCSANPSGSPHTQSPKQSSTGQI SGRADQVCGCWIRKRGVPGAA RGSPGCARTCHSRGHPHAAPFP QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPPVPL*PPHPHP*G LSFSSCSRSWVPNTTP/EPREGE GQVPGRRASAPGASFSAPGT/P RAPQPLPHPPVAQSPPAAVAA SSECKREAARRSPGASALHLPP KSARPRQAPCPTLTDGGHIFPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWFVFL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIKIT/ LATLKMS/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDAEESEDEEEENVKLLSISER RSAPGVVSMVPQKKVKLAAD EDDDDDDEEDDDDEDDDDDDFD DEEAEEKAPVKKSIRDTPAKNA QKSNQNGK\DSNPYSHPRSQ\ QDPFRKQEK\PKTPKGP\SSVE DIKAKMQASIGKKRIEVLGTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQRSFISVRL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKDYHFKV DNDENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVTL\ ATLKMSVQPT\VSLGG\FEITPPV VLRLKCGSGPVHISGQHLVAV\ EEDAEESEDEEEEDVK\LLSISGK RSAPGGG\SKVPQKKSKTCML MKDDDD\DEED\DEDD\DDD DF\DEE\AAEKAPSERNL YRDT PS/AKNAQKSNQNGK\ID\SKPSS TPR\SKGTRIPSKKQEKTPKTPK\ GPSSVEDIKAKMQASIEK\GGSL PKVETKFINYVKN\CSRMT\DQE A\QDLW\QW\RKSL

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7604	37972	A	7658	9	271	GRVCKALWHSWHTARVLCIN STTTITASCNP/RHTARRSLTPT *MCRLENWTKNLLFNPGVPVL VMSLLFIASVFMHLHIWGKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPSPPG/VPT*RPELLGPRR ERLLGPEGs/PGGGALPGVPPSR FVRTASSTLFLPPSPRPAFPSSIP LVSPPRHCARSRETWPRTLIG SAP
7607	37975	A	7661	1	431	LALQFSFLQNRQGLNLLIAEKG RLCIFLNEECFYLNQSGLVYD NIKKLKDRVQKLANQANNYAE PPWALS\NWMSWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNRQ AIANNSI*QMLLLTTPQYQPLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVEVTKPRLLWP QWQHRRARRPCLQQAPCSSRPH APAS\LPPSSSPTARDTKHRAQV KTTDSGARRRDGRVLGVLEVS RSIADGQYKRCG\VTSPVD\IRR C\QLTPQ*PGSILLACDGLF\KVF TPEEAVNFIL\SCLEDEKIQTREG KSAADVRI\YEAA\CNMLANKA VAAGARPDNVTV\MVVRIGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRGLAVSRQ AVRSPGPLAAAVAGAALAGAG AAWHHSRVSAARDGSFTVSA QKNVEHGIIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRD\FLFSV MFEQMERK\IQSRS*QKRFIEDT LSGIPTAGCGSSFFQRPWAIKGL I\SYNRVIFFFALQSSLNPIPGFH VAFKMLDTDGNEMIEKK/ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL/DTTLQMRFFG KRGPRLHYKEFRF\WENLQT EIQGN/VEFLQFSKGLSFMKRKR TLQSGYFFSTNTENKDIYWKNV REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLGDGDECLSHEEFLG VLKNRMHRGLVGTSTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSLSRLC QCLVELSFQLATAYHGSATTRE AARGEAAACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVAPAGTEE GMSEEEQSGSTTTGCGLPSEI MLAANPGKTPISLLQEYGTRIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSTGQGPSKKAACH KAAEVALKHLKGGSMLEPALE DSSSFSPLDSSLPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPVGALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAAKMLLRVHTVPLDARDG NEVEPDDDHFSIGVGFR\LDVL QNRGPGCTWDSLRSVGEKILS LRSCSLGSLGALGPACCRVLSE LSEEQAFHVSYLDIEELSLSGLC QCLVELSTQPATVCHGSATTRE AARGEAAARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRKISQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGCAGCHD SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMDLMDISDQEALDVFLN SGGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFDM LHSGNFEIHL SLL VVKDWRLQGGADSPAGLTGNS SLFVRQAFRGVPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSDEEEVQVDTA LATSHTDREATPDGGEDSDS



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7617	37985	A	7671	60	965	QRGVGGVGPRGRQRQQQPEA* GEETAAAAMLETLRERLLSVQ QDFTSGLKTLSDKSREAKVKSK PRTVPFLPKYSAGLELLSRYED TWAALHRRAKDCASAGELVDS EVVMLSAHWEKKKTSLEVELQE QLQQLPALIADLESMTANLTHL EASFEEVENLLHLEDLCGQCE LKRCKHMQSQQLENYKKNKR KELETFAELDAEHAQKVLEM EHTQQMKLKERQKFFEEAFQQ DMEQYLSTGYLQIAERREPIGS MSSMEVNVDMLEQMDLMDIS DQEALDGLPELWRRREHCAVP
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	CCLIKNDIKEKLHYSDCRLNVG QPCILPRNAFEFDLLIFYLGNLH FYISEIGLLGYCTFFFFFFFEMESC SLTQAGVQ*CNLGPLQPLPPGL E*F/SCLSLPSSWDYRHVPPHWL IFVFLVEMGFCYVGQAGLEFLT SGDPPTSASQSARITGVSHHAQ PGYCILILGFC
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGRVFWAKERASAEAL RHELAGLLKKCKGSAADADQG GLGQGCRRHRSKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEEPSAAAASGMDQCVT VERELEKVLHKFSGYGGQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTTGGEMNYGFHLA HHMALGTSIFGEEGRYSL\STS NSSIAALLCALYPHFGFTALD NRYHLQ\ALR\HLYVL\AAEPRA FLVPVGCQTQTRPCYALLGSLP YKGTQWYEQTKEDLMAPTL PELHLLKQIKVKGPYRWELLID LSKGTQHLKSILSK\DGVLVVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPETISAFTSD PALLSFAEYF\CKPTVNMGQKQ E\LDLFS\SVLYECVYPRETPE ML\PAYIAMDQLIRRLGEREMS ETSELWQIKLVLEFFSSRSHQE RLQNPPPKRGALLMELGNSPPF CKCT\INNTL\DTW\QVRGDIC VNAYLTGQPL\EESQL\DMACF LVFHFVPSSTALPTL*D*KGSTS FA\ELLFKFKASLKMPSAELCLR LAPLPSLEIPQPNGDVTVSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSHRAACPDNRLVPGASR*HY LHRCRSRHSSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLLD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRRHHKIKTGSPG SEVVTLQQFLEESNKLTSVQIKS SSQENLLDEVMS\LSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGGIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTSIHDFLT KD SRLPISVD SPPAAADSNTTAASSEYHLHQ WSSHILDIPHTHTIGSCAQNDLAI DMPEPLYAQARNRSTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILIPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLLRIFRWISQKCQNV EVTSCWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSCTKGQC NPLELVITNPLNPHWKKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNVPVPEIP GKTRNLFLQLAECVAQPLNVTS CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAEKELENFFQNTED WYFHTSHHLSSLRFFSARESNC SMKLYEEAYMERYRDFLPATM WSAHEVDVPGQATWIKQKSE KDPVHLQKGKNGPSCTKGQCN PLELVITNPLDPCWKKEERTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFCDELNVPVPEIPGK TRNLFLQLAWHVAQCLNVTSC YVCGRTIHGDQWPQEAQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIIGQYCIAREGKEFTHPIG*L SCRRQKLYNGTTKTIT/W/RGSS NHTERNPFKFKLQTVWTHLG VPRAWEQPLGFLGYYVRAWS LLTGLLDHWAGSCCLLGTIKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALIEITDKISRALTIL AWQETQMRNAISQNRLALDYL LAAEGGVYGKFNLTNCCLHVD DQGQVVEDIVRDRTKLAHVPV QVWHEFDPGAMFGKWFALG GFKTLIIGVLIVIGTCLLLPCLLP VLLQMIKSFIATLVHQNASQV
7630	37998	A	7684	3	406	TLISFIYPAQNPELLNKLSQRKT TVLAMQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAALE QFKSLGAEPLEVDLKESGEGQG GYAKEMSKEFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTINMANLLKTV ATGCSCPLLNNLGSCGLRVK KDFLRTFYTHQELWCKAPVKP GIPYKQLTVGVPEIFQNEKRV ALSPAGVQNLVKQGFNVVVS GAGEASKFSDDHYRVAGAQQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGTLISFIYPA QNPPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFGFRFTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRRVDR GPQARCFDVGGCPRSAPSNGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCMLSSGTDGACSEVLV GTLYRPL
7638	38006	A	7692	54	522	RFHMSSLSASPPPRRLWTQMNT QCLVFSASHLPRCQEMLFQGT *EKPHSPRCFSPAKKPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVASPSGPPAP CSPV\GWPGTYKAIPASGTVAP TPLSAGTTDMTRLCPLSLEFL ND
7639	38007	A	7693	3	57	RAGAGRSERAVAEES*GGLSGS CGRHNPQGSRLQRRPSQDVELE DCCRGCS*SGSLWLRTLRLPKRPA PFGGFSVPASSAASIPTGSVVQ PGPLPGPTGKSPPVFAGSGPSSN PQPAFS\NMRTRDGSKPGSA/SF APLTPPLEPPAGLRAPSSGVSP LPATIQSNRARARSPGDA*AAP PRPGVLTSAVPLPRRVT/CLRNS RAFAPAVRTNAVTP*PGGVSGP SQRRAEAA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPNSNGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSIWSLAGA MLYAVYIVMIKRKVDREDKLD IPMFVFGFAGLFNLLLLWPGFFL LHYTGFEDEFPPNKVVLMCHIN GLIGTVLSE\FLWLWGCFLTSSL IGTLALSLTIPLSIHADMCMQKV QFSWLFFAGAIPVFFSFFIVTLL CHYNNWDPVMVGIRRIFAFICR KHRIQRPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQGQTGTD GSGRGWGRPNSSGGKEGHFYNN ISE*VGGGASRSGAGPRRWRRG PRMLQITNASLGLRFRRLLYW FL*GPSTLRGVESGSGGLEVLW GSRDPAGRMKVS NVSCQASVS RMHAAFGGTFK*APAPTPAHPF RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSCLGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLL VGDKV CHGLFVGWAREGL*QSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGLLSR*AGALPCTSVI GGQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEER\GVNWA GPD*ATNHAVSGGRMGKEGGP SPLSIAPQCHRPADVRASTPTP
7647	38015	A	7701	2	391	MALRGKALRTTSDLRRFRIYSN HSATWKS LA/L* IPLQAPLK\TM LPELG*MPQCSNERT\WRG\VQ DPHYPEGIKLCAMKVVTNPCGI PSPIGA*SPTFAKGLREVIEKNR P\ADVRASTAPTSPSHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIHH/SSHRVHLA HSPHSLQ**HPHPLAQPSQQDRP SVPL**MSLADPESHLSHSHF HL*PACRV*AYDLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKLNAAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLLGPLRSFRCHLSDPVVRTGAP PGQGSWQYKVLVHAQERELTQ LREKLREGDASRSLNEHLQAL LTPDEPDKSQGQDLQEQLAEGC RLAQHLVQKLSPENDNDDDED VQVELA EK VQKSSAPREMKA EEKEVPEDSQEECAITYSNSHGP YDSNQPHRKT KITFEEDKVDST LIGSSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\ PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTLP SRFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLQRRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI IQ QLQTS LHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGRDS LMSQAPISNQQA EVTPTGRLGK QTDQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSFA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKKNHDAK YLVN*YS/CFRCAPGYYG NPLLI GSTCKKCDCSGNSDPNLIFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLFLFPTVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSSS GTLVHGHSVNGEYLVNVMKN GQVIVKVNNGIRDISTSV\TPKQ SLCDGRWHRITVIRDSNVVQL DVDSEVN\HVVGPLGIQKPIDH REPVL\VGGVPRILY*HPRFCPP QNPFTG\CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCP KYK VPLRALEKE HKASPGGTVTL SFGVGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STSWVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GWLKNS*PQAIRPPQPPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPCGKIEEHSEDMETH VKT K HANLLDIPLED CDQPLYD CPMGLICTNYHILQEHVDLHL EEN\TFSKAWIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEEF QKLQRQYGLDNSGGYKQQQLR NMEIEVNRGRMPPSEFHRRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLLFRGSLA SVIRPGEVLDAAHALVCQRGPK GKPSGAQCGSCWPLGRPKALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHLLVNTMLSCNIC GETVTSEPD MK A H L I V H M E S E I I CPFCKLSGVNYDEMCFHIETAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSILSGC ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPECPCGKI EEHSEDMETHVKT K HANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKR R S E E S R Q E I E E F Q K L Q R QYGLDNSGGYKQANNYEIWR* K*IGEECLHLNFIGECLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPWPWF G
7662	38030	A	7716	229	359	MKWVYCSVTGMGKGQHRMP\ SKG*GWVQRYNRDGIPSPRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEG REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFNQGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRSYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLMLSAAPEPPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVA FKAEGQRCYREKKFREAIKGY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPA\CLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAG\IAFYPLGDYARALRFLQ EAPSREPPDTNVLRYI\QLTQLK MNRCSLQREDSGAGSQTRDVI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPIFPCHKNCPTLRASTN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	



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7670	38038	A	7724	1	1544	MAQGNNGQTSNGVADSPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFLSKIPSVFSGSDIVQ WLIKNLTIEDPVEALHLGLTMA AHGYFFPISDHVLTLLKDDGTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNK\ARL\ELADYE AESWA/RGLQRAFAPKW\EFIF M\QAGAQAQVDKKRDKIERKIL DSQERAFWDVHRVPVGCNTT EVDIKKSSRMNRPHKTRKSVY GLQNDIRSHSPHTPTPETKPPT EDELQQQIKYWQIQLDHRHLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWLSDDTTFWLEVA SKEPSQQRVKRWGFWAWDEGI GKTQLGRRNSFLKIF*EFRISGS GNFKVLGWASGRTLKKRPFAKE VPSRVQEIWQEFAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHIYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAHTRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHLSLIDLPLL\SFLLLLF *D*VSLLLPRLECSGAISSHCSL H/LGPGSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKSRKGPQFG KSQYQELIRRSECGLNREGESI KANMQQVIYIFPITLAEVVL RP HSYPSKKTGLTLAAASIA YISR *EWLYFETGTWVYPVFAKLSLL GLAAFFSLSYVFIAS IYLLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFCSIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPVFAWFILMHF NTRLFQEAFFGQPQILQRWRLE SVGICFQWPDWKSPAKHQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLGDFHYQIHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSLQVSGKVWR*WTAI CTHTSQSLISILL\FCLRSASATS LTLSHCVNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAARKRTVSISEGP DTLGDGMREKRETLALAPEPEP LEKEACEKWKRPFERSASATSLT LSHCVDVVKALLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTR AQDVLDAHLSEVQCCSF\GPNS SLLATGGADRLIHLWNVVGSR LEANQTLGAGGSITSVDFDPF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQA\VTGSRDRTVKEWDL GRAYFSR\TIQCSFSYCNDVVCG DHIIISGHNDQKIRFWDSRGPHC TQVIPVQGRVTSLSLSDQLHL LSCSRDNTLKVIDLRVSNNTARG FRADGFKCGSDWTKAVFSPADR SYALATLPVMGPF*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLPSPHGETWTQGRKGC AFGSRAHDLPALGWRLPEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGGCIPLK VFPAVFRPLSLHTFLPLPLSRT LASGGDGATSASCCRCPGAVSI S*L*QTVASP*VLVFVHSRKE\T GKTARAIKDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHLHDDR PVLEALVARAIARNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFYFDNSFRPVPLEQTYVG ITEKKAIKRFQIMNEIVYEKIME HAGK\NQVLVVFVHSRKETGKT ARAIKDMCLEKDTLGLFLREGS ASTEVLRTAEQCKNL*LKDLL PYGFAIHAGMTRVDRTLVED LFA\DKHIQVLVSTATLAWGVN LP*HTALFK
7688	38056	A	7742	2	518	

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7689	38057	A	7743	18	1108	CSGIPRFRDSQSSTRAACFFPAWT RMRAPSMDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIEMMPEFQKSSVRIK NPTRVEEIIICGLIKGGAACKLQIIT DFDMTLSRFSYKGRKRCPTCHNI IDNCK\RLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVLEEVIRQA GVYHPNVKVVS NFMDFDETGV LKGFKGEL\HVFKNHGDALRN TEYFQSN*KTNSNIILLG\DSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVL\VQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVS LPSSWWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGPTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGTPASQ QGLWTQLPRSFQRPWPKSSSR PGNGPGRAASRPRAQLRPLGG LSRFNDGHGNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPQPRRL RGTDDCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTQPCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFSSMNHTLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRVSA GTGRVPSC LCH SGAWNRLDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGIKAPHKYFIRSII FFFFLRQS/LYSIAQGGVQWGN LGSLOPPSPGFKQLSCLSLPSSW NYRCAPPCPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGAQHIADAQ CDRKGHRTTIQGSRVNLVQPSV GPKVEETQCWGPGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITRGRASAAVP CRSGGARRGGAGGQAADCGPG H*KESESRGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIHWIKK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFEKVLKG*DSRTKMGDQQPP RVHGRTHGPLQFL I'PVKGQGS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFSLSGLLGPGTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITFHVPTANVLVVDL MCHLEKLAKYDDIKKMKVQQA LEGPL\KGILDYTEQQVVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCSATSPGPACQSSA HSPSPRLQAPPPPTSS\SGSSVPE AATAPLAASARRGTTPRPTGRP SWAGTRQGSWAGTQRPVWVA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAAALGLGGRGPDVALHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSQTPGIPQPIVC CVYAESGARDSGQP/PSKVPVPS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPPGLPGGQGPPTW MKVETITQQTNTGTENRVFSL LYMTISKQYLSEEQGSWLSCL INALQAFFSNAAIWLVTWFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPSPGPKGSPGFPRY A\GLLGQPGSRGSIGTHGTIS*/ G/LPTKQGRRGVPVGPPTPERD GSKGERGAPGRGSPGPPGSFD FLLLMLADIRNDITELQEKVFG HRTSSAAEFPLPQEFPSYPETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGN SPLSGVWPSGDWEDKHS Q*CPVVCSPQNILSQT SRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSD\ YQPKK SFDANGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCWTICFQHNVSDFSSCSA PTQAQPSNQSPMSLTSDASSPR HCFKSKE*GTPQTNTVPIQTFGFS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPPATNCDTLVECCLPGL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPSNPSK TSDANILSQT SRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQLSKHNKVMIRSALIT SIILDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVQSPI/PSLT SGPKSS*TIA\PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSSQSPSPGSQFILL NSSNGIQMATVVPQEFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWVPVQK TDGSWRMTVG YCKLNQVVTP AAAVPDVVSLEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQQPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHLPIYRV SRKAANFEWSPEQEKALQQVQ AAVQAAWPLGPYPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWKWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREA AIGERQETA VGKT ARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TL SKSFSFETRTGSPCSSLQTAYC GTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFVPECHIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWVPVQKTDGSRMTVG YCKLNQVVTPIAAAVPDVVSLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFGVIGLRYHFAIHSPAAGGLLDGLHAVAAIQGITKIETTPNHQRAPAHWTLTQQAHLQPSPLHFNLPLTLCLMHCPTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEEVLQAEGDFQPFTRVTVHWGKGNDQTFRGLLDTGSELTLIPGDPKHHYGGPPVKVGA YGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTMAA/AVPDAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQGYINFPALCHNLIRRELDFFLLLQDITLVHYIDDILLIGSSEQEVVNTLDLLIHKRSKEAEHTAASRIRVSCLPEQKSHEQTLPWEQVPSSGDIKEYFPNAFVLLTTASLQGGDNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISRYNSPTSEYFQALDLTWRALGT VGSAPPILPDLGGTNRQPPFILSHSGLHRNVLPETDSQSEDRLPVTWLA VSACCCQQMVGGNPTRSKL*RTGSHYHLPG\WEP*RP HFPHAGSLAWQWLLCSSLEHSFGA*ELPCNPCKGWCLCPCHFIFYIFFNSFLSNCPQLCNWHSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGHDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPLFIGKVRTLFP FVNGSAEIMLMPSNQHKHTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNTHKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLPKDPKHHCPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECHIGIDILSS WQNPFIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKELKDAGEVPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPDVV SLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQGG QYTFTVLPQEYINSLGLCHNLI WRDLDFLLQNITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS



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7725	38093	A	7779	332	2159	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQGQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDIMLIGP RQLLACYWALVETECLETLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWKWYVHDWARA GPEGTTTPVISQWPHEQCCHGG RDGGYAWAQQCRLPLTKADL NTATAKRPICQQQRPTLSPQYG TIPQGDQPATWWWVDYMGSL PSWKGQRFVLTGIDTYSYGFA YPACNASAKTAICGLTECLIHH HDIPHSIASDQGFHMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQQLQCQDGN TWQGWGKVLQKVYYALNQHP IYGTVSPIAKIHRSRNQGLEVAP LTITPRDPLAKFLLPFPATLQSA GLEVLVPEEGTLPPGDTMIPLN WKLRLPPRHFGLLLPLNQQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPFGDTTMLSLSWKLRLP SGHVGLLMPLSQQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	I	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTPG*FCFFSRIRSHCVAQA GL*LLTSNHPPALASQTVGITG VSHWTWPNTGFSVLTATNKNL KFFHYAISKCLVRAKLSSRLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETAVSNFV IYGIFRGQ
7728	38096	A	7782	I	678	MPACRLGLLATALIISLLLFGFTI VSGTGAECTGVCPELQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FEESESSL DTVSPFVVFSISSTLRIE*ARA GDSSQ\DEKESCPPGVTI*LFPSS GLC\RDQVPGGTAQCPGQM/K CCR\NGCGKVSCVTAQFLSSSH HQAQVRRDSFLPGPASGFQAH LPSPFFGTLYSFLGLTTSFSLSQP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLQLRPAQRASWIGYAIAYHL LEDYEMAAKILEEFRKTQQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLLQLCRLEDAADV YRGLQERNPENWAYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFKECL DKFLRMNFSKGCPPVFNTLRSL YQDKEC\AIIKLVVGYETSLK SCRLFPNDDGKEEPPTTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVKAKIYKHA GNIKEAARWMDEAQALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTRRLDTAK\LSDKEL KKLRNKORRAQKKAQIEEEKK NAEKEKQQRNQQKKKDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIETHLFAF EIYFRKAAKMVYYLDPSSQKR AIELATTLDLSTNRNLQTCME VLEALYDGLGDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPIKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPG\QLM M*EGSGWAEARIT/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWLG RSKDHRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQPLLYWTLVNFLIPFS LHSSTWFMWSSNQGIMCKEEV

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7735	38103	A	7789	3129	3197	TQNRRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVVTTTEAAVAIGCEAAH SSREDFTNHQLWRRTVEGKKG EGKNKFMSGGVNTTVPLLKTS RKGSPDSPHLREKPSLEKVTFQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGSRNDMAA DIAGQLSHAADLGTASHDDVT YAIKPTCWPLDIIPSC
7736	38104	A	7790	1	1069	MAEKEAGMSYMAEVLGFVA VIIAEESLKRIRFFENFTVAEERS TDETFSLAEETCSSNPAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTYFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTYFLRCSELQ ENQLTWSGNHGEDQVLNGSK IITALEKGEVEESEYVVITVRNE PALVPPHPTTNSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNDHLYTKLH FCFLQAEVKASNFCIYDSLGH LGSHHTVECIATDEHTLHLTSP MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWWLSEPSHKG HQQQHSIIK WRWYICDWAVVG RESTTNGLA\GWS\GTWKKHD WK\INDNEIWGK\SMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHHPH/LGTEQ EKTLQHVQAAVQVALFLEPYD PADPMVLEVSADRDALWSLW QAPISESQWRPQGFWKALPSS AANYSPFERQLLAYYWALVET EHLTMGHQVTKQPELPIMNWW LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPGLSPCSQHLL WCRASCRAWGPSRPSRVCTG LDTAVTPAPCRLSPLWTSGADK RGREASRGEGSSKWACRHPSA QTAWAVEGDRHRFLSRKGQIT GKTPSSQGQPEAWGLSCSCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCGQQGGKGC GPSGTPDLGALRARAVTVGLCS SWHLQASGHHIPQYLQQKLL VVHLVQPQPCTKPVPVPSFRLQ MTIENMNHCLKFIPHKDYTANRL VSGLLQLPSNTSLVIDETLLAEQ GQLDTPGVHNVLTALSNLITWQ KVDYDFS YHQMEFPCNIKVFIT SEGRSLLPADVPDSLTPANST KHGGST*TAFSQRCCCLPC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7744	38112	A	7798	1	2555	MPSHLNQHQIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKAFRWPSNLTRHK RIHTGEKPYTCEECGQAFRRSS TLTNHKRIHTGERPYKCEECGK AFSVSSTLNDHKRIHTGEKPYT CEECGRAFNCSSTLTKHKRIHT GEKPYKCEECDKAFKRHSSLA KHKIHTGEKPYKTGS\CILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTRLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFLGCSIFTEHKKIFSREKC YKCEECGKDCLSDFTIQKRIH TADRSYKCEECGKACKKFSNL TEHNRVHTGKKPYKCEECGKT FTCSSALTCHKRNHTGDRPYKC EECHKAFRWCSDLTKHKRIHT GEKPYKCKECKAFRCCSDLT KHKRIHTGEKPYKCNECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEECGKTFFKWFSDLTNHK RIHTGEKPYKCEECGKSFTCSS NLIKHKRIHMEVRPYKCEECGK TFKWFPDLTNHKRIHTGEKPYK CEECGKTFTCSSSLIKHKRSHTG DR/PYKCKECKKAFRWFS\ALL NISKHKRIHTGEKPYICEECGKA FIRSSLTSHKRIHMEERPYKCE ECGKTCIIHIGEKPYPKCNECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLSPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLPDSHTW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQRGVSE LLRGRLRELEEAREAAEEAAAG ARAQLRE\ATTQTPWSCAEKAA QTESPAE\GPP*LRRARPDPWTE TRAVAPAG\ILKSIMKKRDGTP GAQPSSGPKSLQFVGVNLGEYE SSSEDT\NDSGDSENGGAEP GSSSGSGDDSGGSDSGTPGPP SGGDIRDPEPEAEAEPPQQAQ RCELSRLREACVALQRQLSRP RGVASDGGAVRLVAQEWFRVS SQRRSQAEPVARMLEGVRRLG PELLAHVVNLADGNGNTALHY SVSHGNLAIASLLDGTACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGQTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLD\VRLLLTQPG\C DP\SILDNEGTSALA\IALEAETG MKVAALL\HAHLSSGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSPATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAIIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPDEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMP STFQKPTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTGPSAAAMAR PLVPSSHKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFL\TKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPPTLPEY CVKDQGRRAPDEGSDLFYDDY YEDARVE\EEADSCFGDDEDD
7757	38125	A	7811	2	296	LSLSFFFVKAHFYVKSMLHSDK ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQ*KLKSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIIFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRIDLLILRVHLQIH LWGLRGRRAEFKHI/RSAAEKK LTRIPSVNGE*TGKSPAPANS\PP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQQSFHGNMC WFCAEPGVAGVPFTANIAGTEP GGLGQGRQC SLATQCHKPELK LQAKPAFPFSLSLFFFLKHIL

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7760	38128	A	7814	594	2868	CWTSRNRRIPIGSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGSITFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPQPPVNAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSELDPLRHQILGGKKAQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PPIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVPIPI SYAPLASQYSSSFLFFRNRPYA PYDYLSVMTPSRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLISTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAASTENWRQWWQKRRI VNGG/GSSPASDADQTPAPGFR RDVGDRDWF AWRQCLLSALT RRRPVAYIVISSAMSGSCLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPL QLALSGWGRFRVLP



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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPES VCRGPPPSSTFPHVPLSTFGASG PENSRDGCSWLSPOH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISPPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGAIFPWESARSIEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLD
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGSEGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSPQSVECRPYVFGAVRHVDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFPTYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEG DGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGDN SPLMNNFR QYLPSLPQSVECRPYVFGAGKP YEFSDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRITVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDTEVFLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQG/RKFOAHKPAKSKTAA/ A/ASEKNRGPRKGGRVIAPKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTL WLFLSATFICRWNLKSESGKK IEHDVVMKA\SSSLPRKLALLK APSPRRNGAAAA\TSSKTPSLRT AGPQLQGQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHKTIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLF MPRNGTGVILSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKKEPLYVGVDEDKANATVD GLEQGHFVCPSEKRYLLLFTFL KKNQKKKLMVFFSACMSVKYP YGLLK YIDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLLFQLE KLIEKNYFLHKS AQETYKSYIR AYDSYSLKQIFNINNLNLP HIAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQKTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFD AKYLTGWR FEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLIKMKIEAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNTSIFHALF EELNAYLFHGTLD SVEKALGN AKLDKSQIHDI VL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGFLRYWSQAY TPATMSKGP AVGIDL GTTYSCV GVFQHGKVEI IANDQGNRTTPS YVAFTDT\ERLIGDA AKNQVAM NPTNTVF\DAKRLIGR\FDDAV VQSDMKHWP FMV VNDAGR PK VQVEYKGETKSFPDEV\SSMV LTKMKEI\AEAYLGKTVTNA\V VTVPS\YFNDSQRQATKDAGTI AGLNVLRIINEPTAAAIA YGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFIAEFKRKHKKDI SENKRAVRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLD PVEKALRDA KLDKSQIHDI VL VGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKS\ENV\QDLLSL\DV T\PF LG IETAGG\ VMTVPH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/HLGGEDFDNRM VNHFIAEYKRKHKKDISENKRA VRRRLRTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSQIHDIALSINPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPLSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSNQPGLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRIINEPTAAAYGLDKRHRSSLP ILTASLAGAGSGL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSQI HDIVLAGGSTRIPIQKLLQDFF NGKELNKGINADEAVAYGIAV QAAILSGDKSENVQDLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNNLLG KFELMGIPPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQEA KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGKINDE DKEKILDKCNEIIIWLNENETAK KEEFEHQKQEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPVAGIDLGTT YSCVGVFQHGKVEIIAN\DQGN RTTPSYVAFTDT\ERLIGDAAKN \QVAMNPTNTVFDCQTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\ VSS\MVLTKMK\EICRSLTLGKT VTNA\VVTVPS\YFND\SQRQAT KDAGTIAGLNVLR\INE\PTAAA IALQKFRQKRFGAERNVLIFDL GGGTFDVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFAIE FKRKHKKDISE\NKRAVRRRLRT ACERAKRTLSSSTQG\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\RDAKLDKSQIS *YLSWVGGSTSYSPRLQKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGA AVPGQPFLSGRQVLENV\ QDLLLL\DVTPSPWVLKTAGG VHDCPPSKRNTTIPTKQTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPP\APR GV\PQ\EVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSREAEVTKLEG GGRQEGTRVSSNDFT*GMPPFN MKSTLLKDEKL\QG\RIINDEGQ NRRFLDQV*LKLSNWL**ESRL LEKEEFEHQ\QKELE\*VCNP\IT QAGTQSARRHCQGGNPWGAFLL
7784	38152	A	7838	3	757	PFPGGRVVRLHPVILASTVDSY ERRNKGAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKKR LAYAIIQFLHDQLRHGGLSSD\A QESL\EVAIQCLETAFGVTVEDS DLALPQ\TLPEIFEAATGK\EMP QDLRSPARTPPSEE\DSAEAEERL KTEGKPKQMK\VENF\EA AVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\ EAVAYYKKALELDPDNETYKS NLKIAELK\LEAPSPTGGVGSF DIAGLLNPNP\GFMASNLMMN PQIQQLMSG\MISGGNNPLETP GT\SPS\QNDLASLIQ\AGQQFAQ QMOSVGIPRVV**SAQESSIRSR TPSASNDQQE
7789	38157	A	7843	225	398	FIIDYTNSCIFHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSIIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVWVSF*Q*SC FYL VHPNCCSPLV*HP*SENPKE SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRMP*K MTVRAHHGISRTPHSWVESN\Y YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLLQGGKI PWSLVTVDLMGAFSYKPKQS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFKEKNP LYYLPETSDSLHEVDGDNTSMF AKILDALKEADKIMENKTTSLG QMENNNDDELNKSIIVKKKPK QLNPFHLKVGHGSFKTKEKLV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\ RTAKDIDVLIDSLPSEESTAALQ AASLYKL\EEENHNEAATCLGG MLFIEGDMLLGGRYKGALADI\ AQSQLEGQSGGYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFVKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIIVGIGPGSVCTTRK KTGVGYPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMMSSEM AMEEVLLGGVAEYRTS\EGKT VEVPF*REMLEHTIPRHP*GGIR S\TCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHHFGGQGADSAAPFGSASI LPIKLDVHPHDGRRRAEKS KPG GNPQRQLYCQPPAGCLPGAVY RPRRSRGARMYSRYSPAERRNP DQRAGYCQAPDRLRFSRADD RSRWRHVHFGTSRHCAGDRAV RPPPHSAAEALPVALPVFQ*PTA DQ\VLFPSLIAACYNHQNKIIL EQEMSCVLLATFIQTRAQQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQDKAR QSAPEKKNRAIRGTNSREQAAK AERNRRQRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTDRTNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHREKETSSRTL*QFQPN AKSPGQNLRESMNVPVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*RSTLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGTLNLT
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEEAKVNEIAFINTLEAQNK RHDVLSKLKEYEQRLNELQEER QRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARI EQQRQEKEKAREGAARERARD REERLAALTAAPRSYGRVTEK NSAQA**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLISSEVYLFS HVKGRKHQQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRakeYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTL EITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGGRKCPLL VAP RLEVQMAVILGSLQ\PSPPGFK\* FSLPQPSPSSWDYRHAPTHAQP NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAELS YLNKAKWLEMYGVDMHVVR GRDGCEYSLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFRLD SARTCKHLWKCAVEHHAFRL RTPGNSKSNRSDFIRLGS RFKFS GRTEYQATHGSRLRTSTFERK P**TSLIPETFNVQSKQPSDSSPA LLKQIQKS/NNYQPPISILISIPS PAPGGILTPQMSGHPFQDDDRSH WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVMTAL



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7806	38174	A	7860	1	936	MELTHLQPHPEQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELAASVRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLPSQITILTTYTGQLFCLRKL MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNH PET HTLVSKASDFQKVTEEGC/MLP CEFRLGCGHVCTRAWHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSFGGLLLG LTPVLRWVADGGTIPKRHE\LV KGPKKVEKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLDKSAEKGS/SG RQASHIKTH*RIVDRAESFPDNP CPGKGIGKN/D*KVDKHDDLQA GASSSSPVGGPGRWNGRHRFLL PSGGCGLCCFS*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEERRL*SEAG KENKENPRQQSLFQNDVSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSSGKAGK PPCGATKRSIADSESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHELKVGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKAEVCHTC GAAFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKTKKP KAAEVCFQNPQVSGRKPQGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQGQARRDALEVVGYES
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHPPSLSF PPGGRQPLWVPALPAEEGRE/R LGREREEGRGKAGAGMA*AGL VL*CLQLQVQGQPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRLV KYRGEVQAMLGESIEELRVRLA LYLRKLCTGFLRDADHL*RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRVNCETEPAM/* HAVENDIHGLCELQLETEIQAF KEELL/FMKKNHEEEVKGLQAQ IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNNR SQQIEESTTVVTTQSTEVGA AAK AMLTELTRTVQFLEINLDSMRN LKASLENSLREVVARYALQME QLNGILLHLESELAQTWAEGQC QAQEYQALLNIKVKLEAAIATY RRLLEDGKDFNLGDTLDCSNS MQTIQKTTTRQRMKGVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSLTAPFPVSCQDHLC*P L*AEAQISIKKEEP
7820	38188	A	7875	3	323	FFFETEFHSVAQTGVQWHPSS PQPPPPRFK*LSRPSLPSSWDYR HVPSPHGNFLHFQ*KRGSTNQA GLELPTSGDLAAFA\SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGLFALCTW ALRRSQPGWSRTDCVMISTRV SSVHAVLATGSGIVIIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTDQNRAPSL TLRNFLSRNRLMITHHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNEMT ESLKQQHTLLYKVNGILTLGNF FPCRILLFPFMV\WSYGRKKGL SLVPSTLQHPILTATWANAFPR* APQIYWFCLLLQKAVRLFDP QAKKDG*MLLGVRRLTPAAS STQHSMDQIVPWVASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRLECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCRAWLIFCVLVEMGF HRVAP/GLVLNS*AQTIRLPRPP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPIKRLAPAPAFVVRKQE LKKIVDP\LL*KKS*EFGHLDRDI QPQKRPPPLL*KWPR\YIRV\QG RRAILYK\RLKGPFCDYPGFTQG PGTPQTS*SSLLKL\AHKYRPRD KAQRSKQR\LLA\RAEKKAAAK GAVPQERAHPLVLRAGV\NPVSP PLVGEQEKLSLVVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIK GKGKTGDGLVHQKALHPLSAF TQ\VNS\EDKGAF/ALKLVGSYQ GPNYNDRYDEVGRSFTQNTVIH KSFSQITGWLNL*EVLSDDQLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWGNNVLGPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGPSPRGTGPGRGDE RLQHGGGSREGPPAAPAAAAP GYGQSCCLIEDGERCVRPAGNA SFSKR\VQKSISQKKLKLIDDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMVKSNKSRLDQ
7825	38193	A	7880	3	638	GRGVAYRGPSPRGTGPGRVVR*T ASARRRTAAKGPPPPQLPPPR TAKSCCLMEDGERCVRPAGNA SFSKR\VRKSISQKKLKLIDDKS VRHLY\CDFHK\NFIQ\SVRNKR KKEDQVYDGRENS/SPSTDIDIP EVD\LFPACQVNT\LR\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKSN KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL\DPAPILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLENYVKNAEASGADAINW KKGYY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWYVVRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLEKEKQEQTHSKAS RRQEITKIRAELEKEIETEKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAINKNDKGDITSDP TEIQTITREYYKHLIYANKLENL EEMDKFLDYTLPLRNQEEVES LNRPTGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIQKEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWKGKRGIALVDIPNVNDKL MVLEVLAIRAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHRSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPPD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIITGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLFWKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQHIKKLIH HDQVGFIQGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDAEKAF DKIQQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYQYQNRDIAQ WNRTEPSEIMLHIYNLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSNNRRIQ/GGIWCD RIL*R*TTCRVAKIQLS*RRI/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7844	38212	A	7899	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLGDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKKCSSLAIREM QIKTTMRYHLTPVRMAIHKSG NNRNHLDFKHirilGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	1	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIQNLTONHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKTNLT SINKIDRPLARLIKkREKTQID AIKNDKGDITDPTMQTTIRE YYKHL YANKLENLEEMDKFLN TYTLPRLNQEEVESLNRPTGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL/LKENKIPRNPTY/RGCEGP LQGELQTTAQ*NKRGYKQMEE HSMLMDRKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKN YFKVHMEPKKSPHRQVNPCKP EQSWRHAI*LQTLQGYSNQ SMVLVPKQRYRSMEKNRALRN NAAYLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLPI*PRANNQNLQ*TQ TNLQEKKNQPHQKVGKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHNEIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACLVVSSYRRA*SLV



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTITIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAICKN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIEAIINS LPAKKSPGPDRFTAIFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGILQLTRDVKDLFKENYKPLL NEIKDDTNKWKPNPCSWVGRIN IVKMGILPKVVYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKSVMRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRIKNLTQNC STTWKLNNLLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPIGSEIVAIINSLP TKKSPGPDGFTAIFYQRCHEEL VTFLKLQFQIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQVPVCR*H DCVSRKPHHLSPQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRINKLNTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQKLELEKQEQTTHSKASRFQ EITKIRAELEIETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDITYTLPRNLQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNMPN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTIEHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMII SID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCP LSPLL FNIVLEV LARAIRQEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSL FNKWC WENWLAICKKLKLD PFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFAQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDIYRTLHPKSTEYTFESA PHHTYSKIDHILGSKALLSKCK RTEIITNYLSDHSAIKLELRIKNL TQNRSTTWKLNKLLLNNDYWV HNEMKAEIKMFFETNENKDTIY QNLWDAFAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAELEI ETQKTRQKINESSSWFFEGINKI DRPLARLIKKKREKNQIDTIKN YKGDITDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVECLNRPITGAEIVAI NTLPTKKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKTLEENLGI TIQDIGTGKDIMSKTPKAMATK DKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAACKHM KKRSSLAIEMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCCKWVQCPERQ LGCHLTSSVIYGLRYYPQAKRS ELELRDCEGLCNQTSPLSSLDG MGWKA AA EESNSGIRNIWIP AFATHKQYNVRQVISPPPYWS HRGNGNNSLCVTRLSGGLKQP VAGTGRGLEGGSGTRDLM PFL SAAPKEQPPI LAPARRSWFFEKI NKIDRLLARLIKKRE

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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKIRAE KEIETQKTFQKVNESSSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRNPITGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKKNFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNICKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLVLVLAR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELYY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEIITNYLSDHS AIKLELRINKLNTQSRSTTWKLN NLLNDYWVNNEMKAEIKMFF ETKENK\DTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKN

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7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIK\NDK GNITTDPTIEIQTIREHYKHLA NKLENLEGMDKFLDTYTLPR NQKEVESLNRPIGSEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLVLVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKHLFKENYKPLL KEIKEDTNKWKNIPCSWVERIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLD PFLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKAKID



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7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKAGVAILVSDKTDKPTKIK RDKEGHYIMVKGSIQEEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKTSRRQEITKIRAELEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSAMEDEMNMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLRDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRREITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEIETQKSLQKINE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRSLRSPCN QLEERVVSAMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTLEN TLQDIIQENFPNLARQANIQIEI QRTTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSDHSAIKLELRIKNLTQNHST TWKLNSLLLNDYWVHNEMKA EIKMFFETNENKDDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELTKARE LHEECRSLRSRCDQLEERVSAM EDEMNMKGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTLENLTLQDIIQENFP NLARQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDLIDIYRTLHPKS TLEYTFFSAPHHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH LKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSHSA AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAV CRGKFIALYAHWRKQIERSKM DTLTSQLEEEKLEQTHSKASR RHEIAKIRAELEKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSLDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSHSAIKLELM IKNLTQNHSTIWKLNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIK\NAH KRKQERS

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7888	38256	A	7943	1	4455	MELKTKARELREECRSLRSRRN QLEERVSA MEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DL\IDIYRTLHP\KS
7889	38257	A	7944	1	6108	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVV\CIQETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDLKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDA YVDYIFNTSV ASLFRCS\SGFHKVCGGKGL\R LFQPNELQAMVIGNTHF*WKG TGKD YRNTKGN IWA EHP\TIKIF WEVFHELPLEKKK\RFLFLTGT SDRIPILGMKSLKLVQISTGGG E\EYLPVSHTCFNLL\DLPKYTK KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIATKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS MY NSDTDEDEETEPSSSGQIIENSI TMNMKLLKAKMKNMNL SKK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSED TQ EKKERRTPSDDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTPKTRLLMITLD SIFMQASCVPPEVVWEVLRVLE AHSSKKHFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*KEGGRYP VPENMGSCRLVTVTASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSNLKRTHL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKKSKILSKVEKF LTWVNKPMDEEASQESSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNFLLLGLENPNLPLT RPSFPQSREASWGIQKATTGP GEGECTRLGFSLLLDVFCALHG PREKCVIELRSGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWVNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGDDLLETNNPEPEK CQSVSSAGELETENYERDSSLA TVPDEQDCVTQEVPSRQAETE AEVKKKKKKKKKKVNGLPPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGFEIFRLS KKITK\NIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNNKLKTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRHTGVKPYECKECGK TFRQHSQILHQRTHTGEKPYV CKDCGKAFIRGL\QLTVHRRHT GARPYGVLKECGESLLDSTHS* LLHQ\RIHTG\EEPYECKECGKG FIHSSEVTRHQRIHSGEKPYECK ECGKAFRQHAQLTRHQRVHTG DRPYESAED

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7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPN PPPTRQGRPTALTNPSPRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNPTRTEPRPPNRRGRPN PQTRRTKQQNTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRRRRALPG\GSAFPEM STHTESTPKTTAHTSNDRNRRE QRVKKKTYKTTRSRRGANRNST ERHEDGYFYGSLTTGGLPWWSA IHSVSAGQPWSLKFTVGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTEGPGSL LLRPREELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAAATPSFPPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHKEKGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGGRRCA*CPQVRLC QPRG*GGRVLPGCRRDRERQQ RGRHRRGCHRAAAL*RAGATL QPCAAPTAAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSSGSRP RRKKSCGRRRSRRPWRGSG SSRSGWSRSGRSKRASGATGS GSSRSRSTGGNSRL*KRKRPRG G*RSSLSLVTIGMRRKRPT*RSQ SRRWRRQQLLLPSGLTTQGSSS SSRKESHRPLRAAVMYPRPSTI DQAATWTATGGWRPLPSRGA RLTPAPPPPLSLSR*SGPWMRSP P/PQPPPLPPPPP\PKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRLPGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTPLLTPLLPTTYP PPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQAKAVPPFSTLMSCLS RQPPSVTQRKWKGSPWLPPRPQ LCPQPLRSWSKSRSPSTC*PM ARPPRRRGPRPSEG YFSQSQEEE FAQSEELCAKAPPPVFY NKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL LLLLLL GALALTET WAGTHSIRYFSTAVSRPGRGEP RYIAVG YVDDTQF DAATPRM* PQSPWLEQEGPEY WDRSTRNIR PAHRLTRVNLPMPPRRYYHQS* AGTGIFHGIRR/YIPDTCVQTHM IHHSVSDYKATLR CWALGFYP VEITLA WQ\QDEEDQTRDHEL VETRPAGDGT FQKWA AVVVP GQE QRYTCHVQHEGLPKPLTL RWE PSSQPTIPIVGI IAGLVLFGA VITGAVVA VM/WQEEELRTFS SHR*SELT SERASSDHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDYAIELFLQASLILLSSTLP YNEREMGLSIFALLTLTVFLLLL ADKVPETSLSVPIIKYLMFTMV LVTF SVILSVVLT LHHRSPH QMP LLVPSDLHSQTS AVPASKK AQTRERPDAGAPSLFFSRKWL YIARQLQE QEDHD/VAEGGLAV CGH GSGPPLPVDFHHLHQ RWD PSHLPGRHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELILTYLFIYLFIFL RRNFTLVA*ARVQWCDLAPPQ PLSPGF KPF SCLRFPSWDYRYA PPYLANFVFLVGTGFSMLVRL VSNSRPQ/CDPPASASQSAGITG VNHHA\RTFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQAPPLTPHPNAPLGPSD LHSQTS AVPASKKAQTR\GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGG\V SSISYIARQLQE QEDHD/VAEGG LAVCGH GSGPPLPVDFHHLHQ RWDPRSSSWSHVPLAPSRPLSL KTGGLRPGPLPVEVREFGDTVK PYPSLPLNSFTRNLGLLFRSG

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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGSLSQT ASQVQAILLPQPPEVAEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVGSLSQLPPRFKRFS C/PASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSCSLSPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPPGLRRFSFL SLQSSWEYRCPLPRPADFLYF*S RRGFSTLVRLVNSRPQ/CDPPA SASQSAGITGVSHCARLFFSFE MEFRS\VAQAGVQWRDLDSLQ PLPPG\LT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFFSRDRVS PCWSGWSQTPDPQVIRPPRPSQ SAGITGVSHRARPISH
7913	38281	A	7968	23	99	YTMTPGPCWRPL*TGPHPPHT WPGGSSSHPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*P/ELPADTTA TVEDMLPSVTSVTTNSDTITETF ATAQYILTSETTTLTSSIAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVAPLVDLSOTP TSTPAASNLSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPEPTQPGA AKSPAEEAATALASPKSEAASVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVSPAPAKTE YGLSLSAVIGLCPVVS GWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGLLEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSLHQCFLLTPRQAL EASSCNSTGWGGEGTGKSGLQ RGP*NQCWEPSPAQQAAFTSS* AVATAAGQGEEELPLPPSTTP GKNTASGINLWLEERTRSSDS VLLNYGCTLKS LACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRLERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQQIFSVDATAFS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLELCFLRAHHDV GFYCDLDVYQSAVYAPTCPTG YSLPQAKEESDFIPLEYEKGRIT STAGQQQDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLDSVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALSYITCSSEGEL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLQIQDSWATHN RQFESEEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLFKKTHRILRRLFN LCKRCHRQPRFRLPKERSLSYW WNRIQSLLYCGESTFPGTFLEQS HSCTCPYDQSSCQGPIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYLLQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPLVHVMLAL SLQICLTKNSTL\EPVMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TWERTNVDA\AA\Q\CCQNWMTM HLGGIRWKTFEETVHVYLRSR IKSLDDSSNET\IYYEPLDDWIP LRNLG\YMKINTL\QVFGYSLPF DPD\AIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPLPPSPPLPRPGPA\GPP SRLPSP/PASASPQGV*LGPA AELPGIRSR*PQVAPEAETHP WCCC*RSSPQQQRISH



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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPECIYKAMNI GCMENLKALLKDSNSMVRIT TEVLHITASHSVGRYAFLEHDI VLALSFLLNDPSPVCRGNLYKA YMQVLVQVPRGAQEIIISKGLISSL VWKLQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIRSKAARALLNVSI SREGKKQVCHFDVIPILVHLLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQAIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEIIISKGLISSLVW KLQVEVEEEEFQEFILDTLVCL QEDATEALGSNVVLVLKQKLL SANQNIRSKAARALLNVISRE GKKQVCHFDVIPNPWSHLLKD PVEHVKV*RCRLPLMFA\TVIT EGKYAALEAQAIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNNKPIHMYINSPGGVVTA GLAIYDTMQYILNPICTLPRTVR MSPRWCRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRC LHATAT RALPLIPVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNNKPIHMYI/N QPSGGARGQATDIAIQAEIIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGLDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPPRTACSLQRCLHA\TATRAL PLIPVVEQTGRGERAY\DIYSRL LRER\VCVMGPIDD\SVA\SLVI AQLLF\LQSR\SNMKPIHMYIN\S PGWWVVTAGLGHLTDTIAVTF LQPDFCTW/CSLGPGAASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGQSPPD\AIQAEE NP*KL\KKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFGLKTRFLVPPSPQDGE\ DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIIHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPPGFKQFSC LSPSSWDYRRAPPHANFFYF F**QTG\FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRRS GGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGHLVKDM KIKYLEDV/YFSLPIKESETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCK VTGRCGSVLVHLIVSAPVPKKL LMMAGIDDCHTSARGCTAT/LG NFAKATFDTISKTYSYLTLDLW KETIFTKSPYQEFTDHLVKHTT RVSVQRTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTL\VGKMKMLQAPE SVLAEHYQ\DLRRKPFPPCPSSR YMSSGPVVAMVWEGYNVVR SRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDS\VEGAQR RIQLWFQEQ*SWVSWA\D\GGQ HSSIHPA
7933	38301	A	7988	1	897	

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7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQT KHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKL GALFTI AKTWNQPKCPSMIDWIKKMW H/IYTM EYYAAIKKDEFMSFER TWMKLETIILSNLTQEQT KHR MFSLISGSRTMRIHGHREGNITC QGLLGGE CVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNNVRTWLYSN LVCWPSLGLSMGKL RDRVIKR VIYTHTAGDVSMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEV TLLQIHSP LFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKKMW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQT KHH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVLTIAASLSFKDPFVIPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRLNLGKKKKK VKVYTKTDGLVA VHPKSVNVE QTDFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGGSACRIVCTQPRRI SAHSSCGKSSCRKGQNLVASGN STGY\QIRLPESVAQGNRVLSYT VPTRNHPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVLMSATLNAEKF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYSASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITIDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGRAGRVQPGSLLFICI NGS*EASLLGWTIQLPEIFEE\PF WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNEPVLLSIRHLARSLNA LDKQEELTPLGS\HLARLPVEPH IGKMILF\GALFCCLDPVLTIAAS LKFAQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKD\FCWEYFLSS NTLQMLHNMKGQFAEHLIGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKTDGLVAVHPKS VNVEQTDHFYNWLIYHLKMR\ TSSIYLY\DCTEVSPYCLLFFG\G
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEI\KTL\KEETKK
7941	38309	A	7996	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMGTR*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVLDP/NETNEIPN ANFRQQIRKLIKDGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRMYHSLYLKLGKGN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIKTLSQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGEEKGSY/NA**PWVE EQLTROPLIIHQPASLHSVY/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPPHRPAS*G/MPAGP VQKGAPT/AAAAG*RLLKHGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*C*CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDA PQKSAASSSLKVLSG LPKHQRPRRFCQNTGS*SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPVAVTTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECP/VFT ATASSGLGEVE*AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHSVGRAVAAQ GGEHSSQGASLVLGEPRGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAENLGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGR\IGEIVYFLPFCHSEL IQLVNKELNFWA\KRAKQRHNI TLLWD\REVADVLDG\YNVH YGARS\IKHEVER\RVVN\QLAA AL*SRTLLP\GGCTLRITVEDSD KQLLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEM SRNRIAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFNLSVLYLHGNSIQRL GEVNKLAVLPRLRSLTLHGPN MEEEEKGYRRARGHSLHQGIEK YICESDDIFRKYCNNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLLEPPWS/TTVV CLYCRPATDFHPSGSGRVSAVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEEFGWGRLEERS AVEWPNSRGRSSSHSIPFAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKV KVFI VLT PQFLSRDKDQLTKEL QKHVKS VTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDRTSEKHLLD SVFTALQDSAGQQWPARLHPQ RGEEVADPRGAPSRHVEPENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEAWRQAGPGPAEA AD/TSATSRRSTSPTCRRRRPGC SGAPSASTTSFRAWGWTQAAK ASPPRDNCYNSSSLPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRNRGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSKDFCKIPL DEVVVPH*/DFPVRSPYLLSDKE VCKIVQQSLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRITSEKHLLDSVFTALQD SAGQQWPARLHPQRGEEVADP RGAPSRHVEPENSSPCQGNQEQ AGKAGARALCGQARRSPATMP PPLTTRSLCEFAVFLHWFPEL FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTEVYFPHMQEEE AWRQAGPGPAEAAAD/TSATSRR STSPTCRRRRPGLQRCAQCIND KLQGLGLDAGSEGEPPTRQLLQ LLQPAR*HLSNQGCG*LGGRAL FTHDNLHKQHSCSDSLGKKQL DPSCIKLIRH*VHLLYLCTKNNR VWTLEFMGNLHWNRRNGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVVP*/DFPVRSPYLL SDKEVCKIVQQSLSVGNFAAGL L/LPRTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECIPSNDQCHCPNRKK CNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLSLANNKITTINGLN KLPIKILCLSNQIEMITGLEDL KALQNLDSLHNQISSLQLENH DLLEVINLEDNKIAELREIEYIK NLPILRVNLLENPIQEKSEYWF FVIFMLLRLTELDQKKIKVEEK VSAVNKYDPPPEVVAAQDHLT HVVNSVMQPQRIFDRYLLEIQR PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLGDLFYDFRAC HTRPPYFGEGDRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPPVLCFPHPVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCGLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILTTDRITETMNISWKP RNPSHTVPHPHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVFLVL ECPNLKLLKPPWLHMPSAMTV YALVVVSYFLITGGIYDVIVEP PSVGSMTDEHGHQRPVAFGL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVVLLEFFPWARSNS MRNGNCPGLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSSTAVI RVLLPGILLSSKLRCSMVLATA LERDDSDVGVTISSINPQDSHFS CLLLRISNSC*IC/CNFFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRKLLQQAFAFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCAYPEKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSMDS VEPAAWVLMTFCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQPFRR/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGRITYSGWVEAYP TRTEKTREVTPLLRDLIRRRFP PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHA\GKVQPFRR/DIQAY GAAAFEDLQVDFTEMPECCGN KYLPLVLGRITYSGWVETYPTRA EKAREVTRVLLRDLIPRLELPFR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK



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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTHIQT NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPT DYKNP QEDVRTQLLGTYPPQWDPNERQ DMQRLNRYREALLEGLKRG AQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFDPNSPENQ CMINMALVIQSTEDIRKLQKQ AGFARMNTSQLLEIANQVFN RDAVSRKENQKENG GWPPCLR ALAATALLVQEANKLTLGQNL NIKASRAVVTLMNTKGHHWLT DARLTKYQTLLCENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRDQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVVEARSLPQATSAQ KAELVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQT VLT YKRELNNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGS LQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEK FNGDYGVMTMPGKWRTYFEID WSKLEVGWPSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPPQWLRGQAAAVLVA KGQINPRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPSGALP LPGKDAPHS*AHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWDTNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGFNGDYGVMTTPG KLRTLCEIDWPTLEVWGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTHIQTHTNPWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPAENQRM NMAVSQSAEDIRRLQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTWWTW LPQGFKNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKKIAQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPFWE
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GGRRQRRSKVTSTWWQARESS CRGTLTYKTIRSCDTYSLSQEQ HGPNLHLIGVPESDGQNGTKL ENTLQDIIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPAQELLKEALNMERNNWWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPTDLQLRDLTDRR KTNKQKGIASLTLTRTSTPKPH LYVTNIKDQRPNPRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTPQRYSSRA TPRHLIVRFTKVEMK\EKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPIFNIL\KEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCLP*KS TRPALKELLERKHLNM/EKGNN WYQPLQNHAIQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQPADLARHLLPCVIH AAVLKVKEEESLENISSVKKIIK QIISHSSKVLHFPNPEDKKLEEII HQITNVEALIARARSLKAKFGT EKCEQEEEEKEDLERFVSCLEQ PEVLVTGAGRGHAGRIIHKLFV NAQNV\A\AMTPP\EEELKRMGS PEER\RQNS\VSDFP\PPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHHKWRR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIAIRFTYVLQDWQQ YFWPQQPPDIDALV

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7976	38344	A	8031	1	1688	MREKPCQSNECGKAFNYSSLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRRLLHTGE KPYKCNECGKTFSEKSSLRCHR RLHTGEKPYKCNECGKTFGRN SALVIHKAIHTGEKPYKCNECG KTFSQKSSLQCHHILHTGEKPY KCEECDNVYIRRSI.ERHRKIH TGEGSYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSRRENLARHRLHA GEKPYKCEECDKVFSRRSHLER HRRHTGEKPYKCKVCDKAFRS DSCANHTESSILGEKPYKCYK CCGGFLIQKGLPQHQRVHTGE KPYECNECGKVFNQKASLAKH QRVHTAKKPYKCNDGKPLPD QSTLFHHQSNPIGVGKRYQ\CN DCHKVFSNATTIANHYRIHIEE/ KIYKCNKCGKFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KAFTSCSHLIRHQRIHTGMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRAFLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMALAFS EQEEHELPLVLSRQASTGE*GMR GTPAESGGKDWVTAVLVAGPF CGRARVHTDFTSPYDHDSLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLPEEAVGH ARPSRRQSKGKRPKPKTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPG\GEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQL QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLIHRLGTALRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQHF/TFI/VLPQGYYN SPGLYSTVLRDLENLDIL*NIK LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRG/VPS NVKDKLLHLCIPCKGREAHCL G*ALF*VS*HHIPTCKVVSGFDP HF*VT*EECPAFEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFQVLELNQAPVGESQWKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQMPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPTATSKCPTHQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMTGIGT YSIVGFSCRVVIPSVSTTFWGLL IFVIHRLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAAGP*RMLKRA\SIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPISTHLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRRGVPSSPGTVIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSVRRIVQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGGHI TGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAVAE MKAVSKNKVVAETKEGALSEP KTLGKAMGDFTPKAGNESTSST CKNEAGTDAFWWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELEPAAGADC*KPRS GAEEEEENVIGNWFWEGDDT SFDPNPKPVSRIKVPQVYEINE KNRPKDWSEVTIWPNAVAVTP AVLGFRSQAPSEASP/LFIYCSG LR*RKCLFFACGNSLPPF*E\PRS CSQPIPECRFDSDCIQTIDEIRR QIRIREVNGIKPFACPCCKMECY MDSEEFELVSLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFSPPEMRKKTVI TLNPPSGDERQRKIELHVHMC KETMSFPLNSPGQSGLKILGQ LTTDFVHHYIVANYFSELFHLL SSGNCKTRNLVLKLLLNMSNP TAARDMINMKALAALKLIFNQ KEAKANLVSGVAIFINIKHIRK GSIVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARH FSKCSSNAQSHLCPYLQAFPGG PG/VRGLPGWPGRGTSRELGHG WRGCG/EGLVSGCQTMLSGA\P AGSPQPTGGTRAHAVRGRP*V PARSQGSRLARPQGED*GAAP\ DFDPGAAGVPGVPALQEAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPPRPANFVF LVETGFTMLTTIVLIS*PHHPPA SASQNAGIV/GVSHSPRPGIACLI TRLDF/HQGTQSRVPALGSS*PIP HARPRGHTLKALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRGQVGHAFASAIASISLCVF TLLVEGKLKPPGASVRRCLQSN RDLGFRATFPTSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRQPD SSSPGTSWFPVPEMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIRQGPKIQD EGVVLESEETNQTNDKMECE EQKVSEDELMSESDSSSLSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTGSFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVGQGVSLVEAM CLGQDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPSGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLATGGMDDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLDNA RIVSGSHDRTLKLWDLRSKVC KTVFAGSSCNDIVCTEQCVMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTFAPGFKC GSDWTRVVFSPDGSYVAAGSC *RALLYIWVDVLTGKVEKVLK AHSSSHQCGWPWSPSWARTF VSDKGCKAVLWGTVLTGLSG LGGPQCPPHEEAHGLLQPWSW QVNVLGYSMDLPEKLKANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTLIHCW WEC/KFNPLLKAI*RFKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRCPCNPATFGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVCLSDSENLS QKILLILEVSDSVILGKLSHKNII QHDCIEEPLTLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDDLPLLAKPASPDEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENTPAPP RWPPPP\PRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAAR AAPRRPAPSCFSAPTGC SLTTG
8001	38369	A	8056	3	179	PPPHQGGPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFFEMLSLCRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHANSFCI FSRDRAL/TMLVRLVSNS*PQVI RLPQPPKVLGL*ACCGFCGSS GMAPGCGRVVSHAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVNP DWLWSCLERWDKIEEQFLPLR DDHTKAQRENSPTPLPDREGIPP TALSHPMPIPKAQPSPEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGAPASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPA\G RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M



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8005	38373	A	8060	1	2886	MEVPAAGRVP AEGAPTA A VAE VRCPGPAPLRLLLEWRVAAGAA VRIGSVLAVFEAAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGCSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHVSPELMVSSEQAEQLG REDQQRHLHRNRKLVLMVDLDQ TLIHTTEQHCQQMSNKGIFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFHPKTC SGW GEWGDHGVVWAGPAPA\YHL HRDVQALWTNDHALAWP*AM TSERTLWPGHEL SARPGRSWRI SCPTGLPQGGDDRTRGHWVTA TCCSADGLRLCRYGD\GV RGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPFRTPPRVPSMSHW LYDVLSFYCCCLWAAPDPGKD RAGLGCTPT*PSTLT LASAFGDP HFVTFDGTNFTFN GRGEYVGM G*NQGGRLPSGSRSAPTTAGT ETRGTGLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFFER GQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVSLS SSN*L AQSTARFP PGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSG PSQSSHP HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILESLAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGDLSRRPGAGRRA GQGPQVGAPKPGGAEYVRWA AGGMKGAGSSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRRQACGA*G/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSGTPGAASVQVSAPP AQPQINLSAGARAGVARRCVCP RGAES*GPGPDPGPSRR*PPAA QSGPPPCPSALFLHPSGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVLGLVRAGPAWSPL DGPLDQKVFSPTSLWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGAFF VVVECPDESFIQPICENATFQRY QGKADAPVALVVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRSKIQTLNLI HPDIFP/AAHQFPL*EGGHPQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPAEKRS QYPEIIFLGTGSAIPMKIR\NVSA TLVK\QSPDTSLLDCEGTFGQ LCRHYGQVDRVLGTLAAVVFV SHLHADHHTGLPSILLQERERL ASLGKPLHPLLVVAPNQLKAW LQQYHNQCQEVLLHHISMIPAKL PSGRWLRSPLVQWKD*FSSLLR TWIWEFQTCLVRHCKHAFGC ALVHTSGL\KVVS GDTMPCEA LVRMGKDATRQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAVPQVPVGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYSG DTMPCELLVRMGKDATLLIHE ATLÆDGFRKREA\LEKTHSTTS QGHSAGWGRMNAEFHY/VLN HFQARRY\SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEMÆERREKREL AGAGRPSCSRGAGRRPLEDGEP QQKRAHTEEPQAKKVRQAQ

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8013	38381	A	8068	1	607	SPGSWETRLVWWSFYRSCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLVWWSFYRSCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVPEG NIVIGYSISQQRQNGPGQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKPSPARRSRR PAHRCSSRRRTCTPQATRPGMR *APAAACGPTGRRS/RLPALKL ALEYIVPCMNKHGICVVDFFLG KETGQQIGDEVRLHDTGKFT DGQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHVDNPNNGDGRC VTCIYYLNKDWDAKVSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVPSHSVTSGAA AGECGGVHCDVCAEGRWGPN CSLPCYCKNGASCSPDDGICEC APGFRGTTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNEAYSQ/SCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYMGSLSKDLG KNSEYNSSNCSLSSSENPYATIK /GPTCTYPEKLRVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFPGSI*PP KNSHIPCHYDLLPVRDSSSSLK QEDSGGSSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPGRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKDWLIQ REGWPYILSRMFL/CFISTDGRE SESLWRKSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECCP VLGHSWGYKS/CLNRNPLKGLS SRCAGLAVRDSLAPNSQGWKA TFDFPSLECPSTYGYGCRQICD CLNNSTCDHITGTCYCSPGWK ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHHSCP SCSLPTGIVHYL*TQAEKGKIKH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLNSRWLKGKLPAGPIQEIKE MWRCMSSICQKEGWRMTAGS LGHHRSLHVGQ/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFACPLRIDFFGWFFFVFF LSWSFTLFAQAGVLWCDLGS LQPPPLGFK/KFSCSLPSSLDYRC LPPRLTNF*FLVEMGFHHVQ AGLELLTSGDPPASASQSAGITG MSHRAQSAALSFK*SGISKNRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVKADS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPI GVQKPNGQWKLVDLRIINEAI VPLYPVAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYLDDLLLAHLETLC QATQKKTGIALGVLTQVQGT QPVVHLSKEIDVVAKGWPHCL WVVAAVAVLVSEAVKIIQGRE LTVWTSHDVSGTLTAKGDLWL SDNLLNQALLFKRPVLRHTC ATLNPAFLPNKEKIEHNHQQ VIVQTYTIQGDLLLEVPLTDPDL NLYTNGSSFVEKGLRKAGIHPS RQWTPWPKAGPEMLSKRQVL ESGILKAFLVPYLLVAVLSIDF NGKPPVAVFSLSQAHFLCAT WLLLGYGGEVWIHSHTAIKTYQ RRRSQDGRIGTAPVYSSQRERR RRRVISAFPSGIPDTLQLRVLS VRRKTNKQKQKHPHQKPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSA MED

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8036	38404	A	8091	158	865	NPAARTPFFVIKKGKRGEGCL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSGQWRLV QDLRIINEVTVPYLYAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDLVL RYMDDLALLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
8038	38406	A	8093	194	1377	NPAAQTPFFVVKKGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDLVLQ YMDDLVLVTHSETLCHQATQV LLNFLATCGYKVSKLKAQICSQ QVKYLGLKLSKGTRALSEERIQ PILAYPHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKTQ KANTHLVRWTPEAEAAFQVLK KALTQAPVLSLPTGQDFSLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNL KRWQSYTARVIRKERKKGK
8039	38407	A	8094	3	521	

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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWSPA AQTPFFVIKEGGKRGAGLLHGQ LILKDKFITQSAADIKEKLQKST LGPERNLKTLNLATSVFYNRD QEEQAERDKRGKKKATTLVMA LGQADFGGSGTRKAWANRMP NRAYFQCGLQGHFKKDCPSRK PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTPLMEQ YVPCPV CETAWAQHTDPSEKS EDVQYFDMEDCVLTAIERDFIS CPRHPDLPVPLQELVPELFMTD FPARLFLENSKLEHSEDEGSVL GQGGSGTVIYRARYQGQPVAV KRFHIKKFKNFANVPADTMLR HLRATDAMKNFSEFRQEASML HALQHPCIVALIGISIHPLCFAL LAPLSSLNTVLSENARDSSFIPL GHMLTQKIA YQIASGLAYLHK KNIIFCDLKSDNILVWSDVKE HINIKLSDYGISRQSFHEGALGV EGTPGYQAPEIRPRIVYDEKVD MFSYGMVLYELLSGQRPALGH HQLQIAKKLSKGIRPVLGQPEE VQFRRLQALMMECWDTKPEK RPLALSVVSQMK/APDFCHLHV *TVLWEADSLLLIPGPGVHRGV LGWKRGVQELHGG\NTEKGLM EVQRMCCPGMKVSCQLQVQRS LWTATEDQKIYITLKGMCPLN TPQQALDTPAVVTCFLAVPVIK KNSYLVLAGLADGLVAVFPVV RGTPKDSCSYLCSHTANRSKFSI ADEDARQNPYPVKAMEVVNSG SEVWYSNGPGLLVIDCASLEIC RRLEPYMAPSMVTSVVCSSSEGR GEEVVWCLDDKANSLVMYHS TTYQLCARYFCGVPSPLRDMFP VRPLDTEPPAASHTANPKVPEG DSIADVSI MYSEELGTQILIHQE
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVPALPPKRMLGA DREFIEARRRALKR FVNLVARH PLFSEDVVLKLFSLFSGSDVQN KLKESAQCVGDEFLNCKLATR AKDFLPADIQAQFAI\SRELIRNI YNSFHKLNRNRAERIAS/RAIDNA ADLLIFGKELSAIGSDTTPLPSW AALNS\STWG\SLKQALKGLSV E\FALL\ADKAAQQGKQEENDV \VEKLNLFLLDLL\QSY\KDLC/R GHEKGVF/HTKHQRALAQSTA* LKRPD*LSATGAEPSPPEVRGS KLKSRIRGARENAI\QTMELRN Y\FSLYCLH\QETQLIHVYLPPTS \HILR\AFVNSQIQGHKEMSKVW NDLRPKLSCLFAGPHRTLTPPC SPPEDG\LCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEP/PA RPSCSCLFSPQPCNSITPSSLLLR QLAVAAAGGCGGHGAPALSST GWQQVCKSPQVRSVPDNPPTA DSTASLAWKFGEVLRSHINGCY K*KQQPLLPVHAQRRRAQVSAP/ APPAGLSCGQHSLPQPPRCSDLS LGLHPGRLPCDRGHCPPLPPVT PTPDKAGPILDPAQSCPFCSPIPA PPKQPSPPARFPKMRKKTL MPPSEGSLSLASGMEASVFQRL LSRCTCLDQATVIWGFQCYMQV QASQGIPCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSSS ACSPHLCCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHRTLNSECP RRRRCCIKGCTYT*LDVPPPP VLDWLVPKPRWLGNGWLL DGPEEVLQAEACSTTEDGAEP LCPSGYECHILSPG\DAEGIPN RGQCVKQRRQADGRILRHKLY KEYPEGDSKNVAEPGKG\QQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHN SHLIYFRRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHLCVTP MQLRMTLVVSSLGKGTGCLSL AQ/CAPVQEGTHGGSPPEGWL AATRTCEGCRRENTMKNVGSR KYAFNSLQLKAFPKHYRPPEDL RKS



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8049	38417	A	8104	23	304	KGFYLFNKQTIEQTNNGSKSFA KRNTTEGHDDLLQGFQGSQTPS FLSSSGRCYSWGAIGP\QFGALS GVFSPFPHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLISPLCTIPALVE PPCGPQPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSPQGVQ LPLGPR\RLKMNTEPPTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPGTMQEAQ PPEVLKTAGKAGGQEPG*L*RIP *GSLCPPCPVAFGAAAELPLPSS DPVSRGTGAPPGQG*WLGFGYFS SNEGPSQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKL\KPGGLPGWL FPFFAQPSSEG/GLCPPCPVAFG AAAELPLPSSDPVFRTGAPPGQ GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPLIE*ASPGPHSG* AGQVPGAGPPRTAG*GV*TGTA PCPKAQPRK*QR*R*RCSS*VG* ESAEIVCPQGDAEG*RKGPS*G/ SHRRNVPS/RYSNSHGPYDSNQ PHRKTKITFEEDKVDSTLIGSSS HVEWEDAVHIIPENESDDEEEE EKGPVSPRSPRKR/PSATRAAA SRLRGS*TLGGLLGCIFAFFAPP SPTEGACAHPAQSLSGPLRSFRC HLRILCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLLEQCLHSVSTWETPQYRRPP SPS*RGSREQPCSFSSPRDTPGE NHWLSLPQRD*AGPPVR/PSAG GFMT/PPRGVPTVEVPPDPTC/S PNHTRPFRFPFSKNPCFRFPEPL RAPTLVPGPLPPTHGPRVPHLE RNLSALGLGKSEGLKRNPCVEP /PAPTPIRFKITGTLP/PAADH ALLGMRDQSLSGQSPGPKSPDA DDQLQNRDHTETEQRISGRSS ALAPESQLQQGCAGIHFRGRFC KAPPLASGPA/RPPCLSLPPPPW APVRPKPPR*APPPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRGVKRH SGATEPANGTWARRRGPGRDS SNQSSGGGERSQLRHRGWRR SRPLLPPGAASPLAGEDPERNA G\GWRGGAAPMRPKRGPMMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRRPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLAP RLRALRGRSPWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GGQGEELPAGSEAGRPLPGRP GCPGTSPRLLPRRPVRKTDVGN RSSFFPRAPGRAPHACQPTQFLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSAFI*QFTNSINIFI*TSFC *TASVHLSCIVAVFCFHPCQCSS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQTNRVKLLMPAK HQPDLILLRHVPLTRVHLFTAI QLACLGLLWIKSTPAIIFPLM LLGLVGVRKALERVFPQELLG LDELMPEEERSIPEKGLEPEHSF SGDSEDESELMYQPKAPEINISV N*LE*ESGSGDPRKQHEVLTQE VRTFLAFGLTSRCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRITKDRVKNLTCITY TILPTDLQPGCLPRSFYPSSKP TSFWLWACKLFPPLPISFNPSA HSKTAHGHSGKHTEAGM*WS* TGEGITGRCCFVSIKAPPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QSNKHQEHQLAPDVAFAMK GACVCAAGFRGWRCEELCAPG THGKGCQLPCQCRHGASCDPR AGECLCAPGYTG VYCEELCPPG SHGAHCELRCPQNGGTCHHIT GECACPPGW/IG/TV*GPPSPGSL LGCLPRETSISLISSIQLCLYLLL